

FIG. 1A

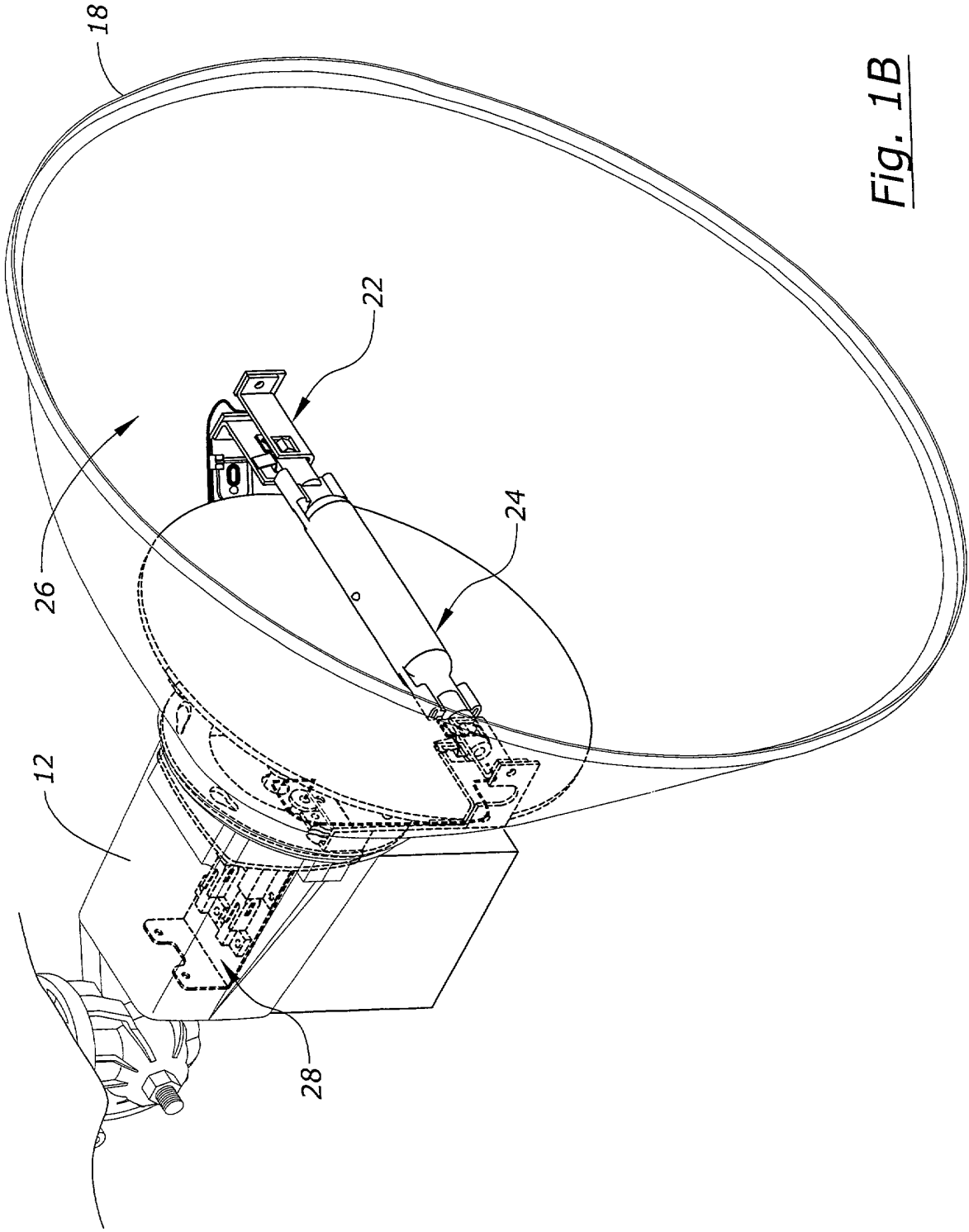


Fig. 1B

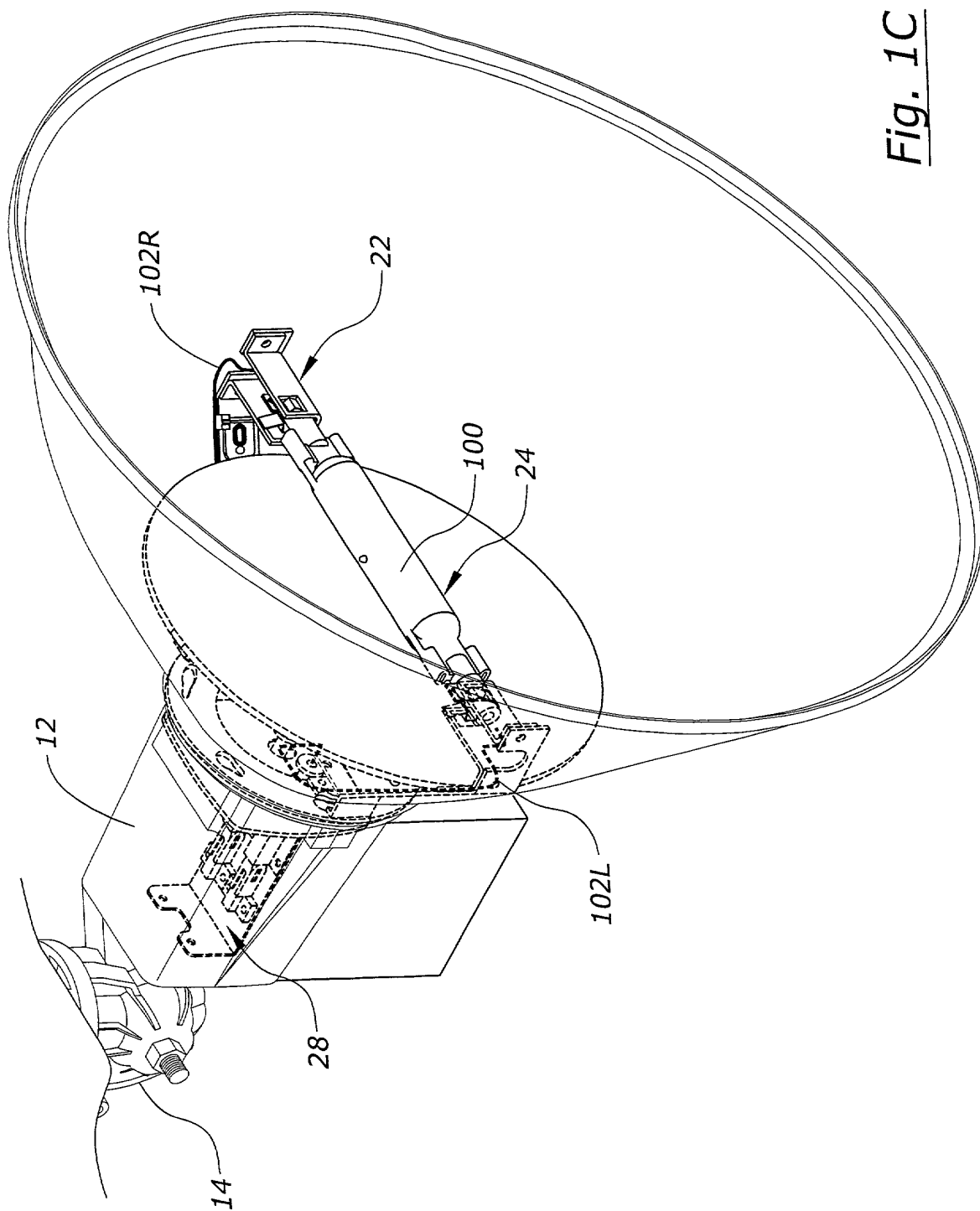


Fig. 1C

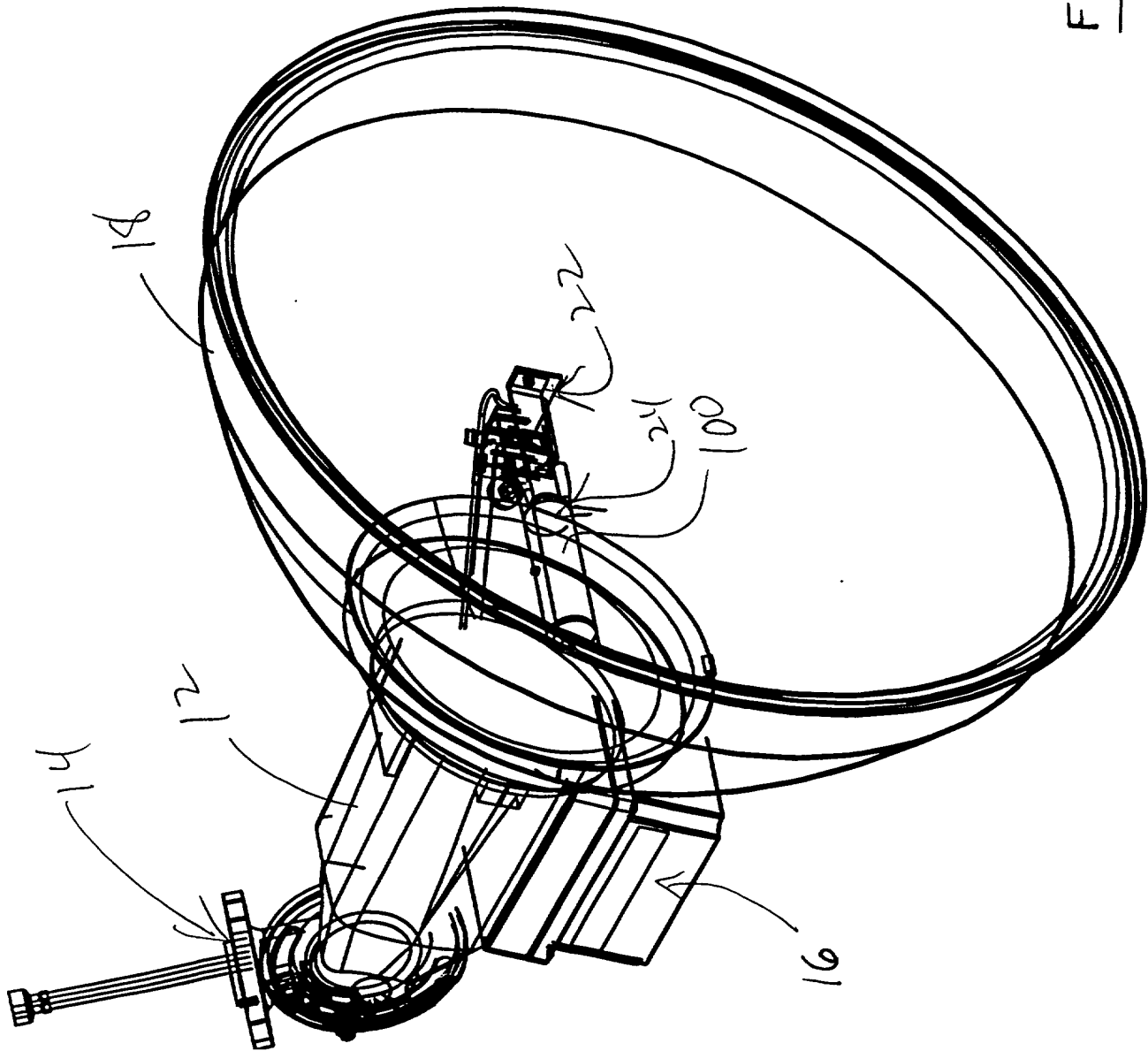
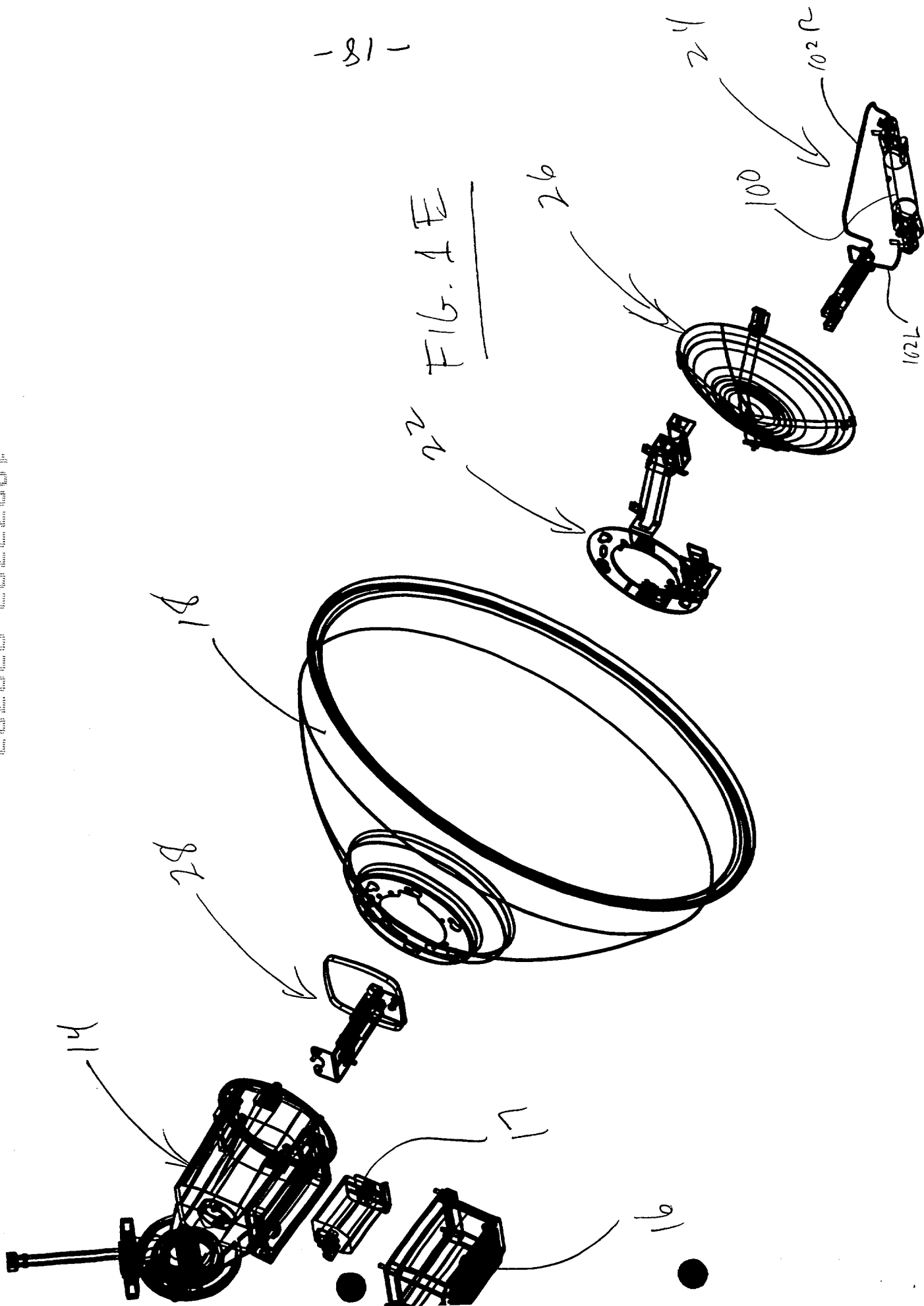


FIG. 1D

FIG. 1E



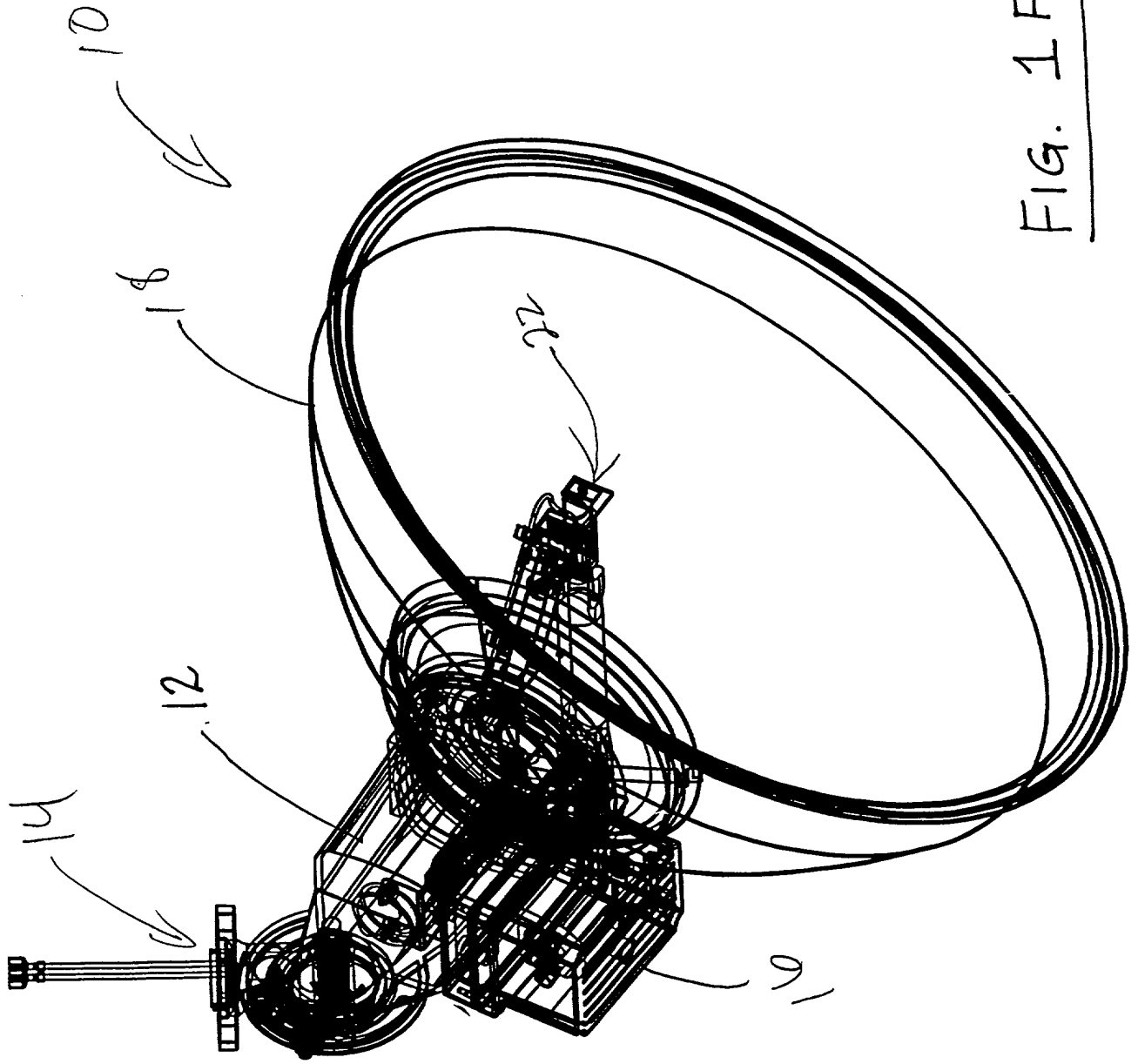
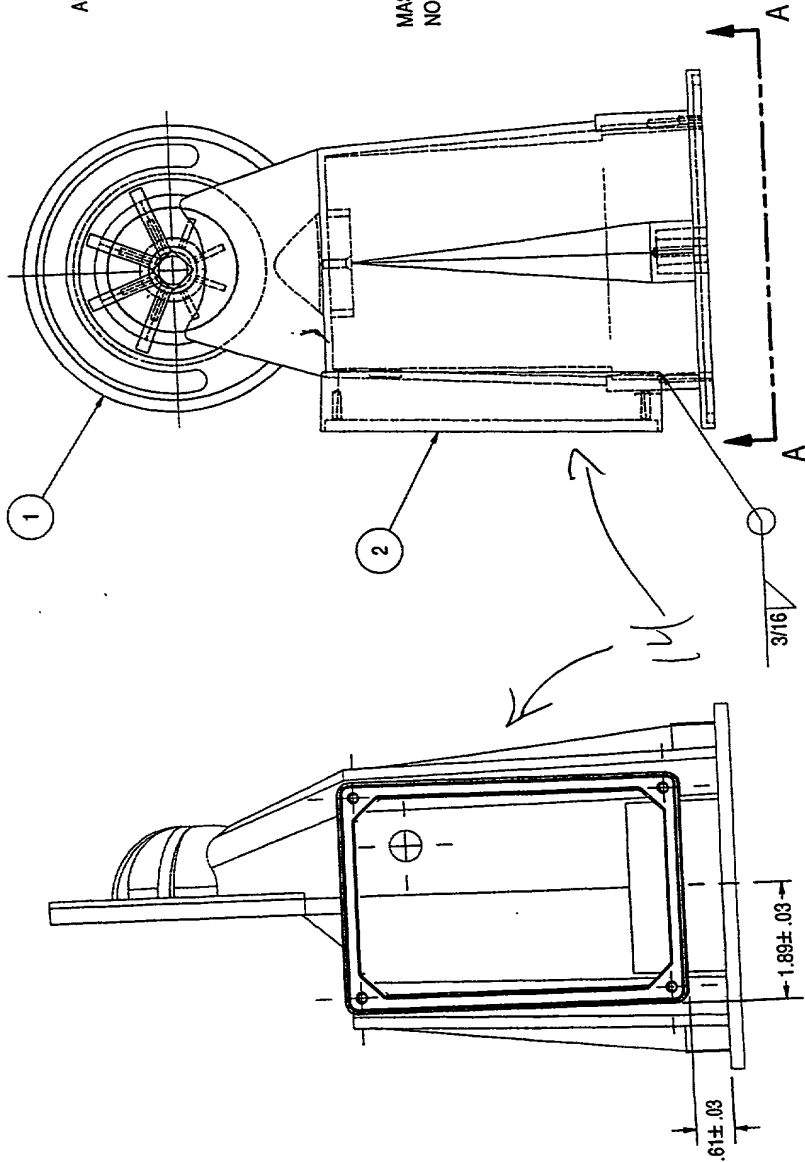


Fig. 1F

202020" E022200T

PAR

| BILL OF MATERIALS PER UNIT | | | DESCRIPTION | |
|----------------------------|-----|-------------|----------------|--|
| ITEM | QTY | PART NUMBER | | |
| 1 | 1 | | 2K Lampcone | |
| 2 | 1 | | Ignitor Box 2K | |



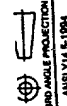
View A-A

CONTROLLED COPY

FIG-2B

NOTE:
1. ALL WELDING PER MUSCO PS-1148.

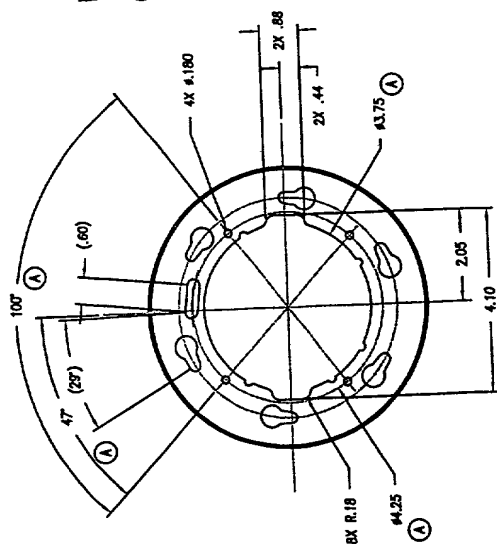
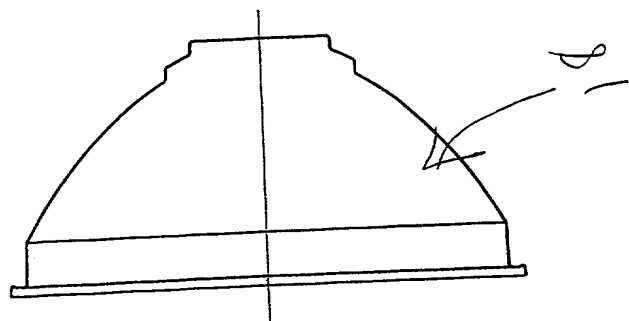
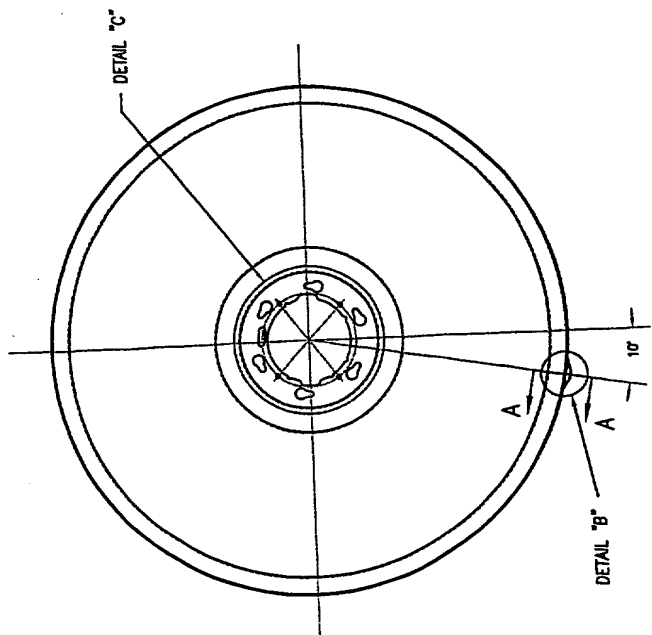
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3RD ANGLE PROJECTION
ANSI Y14.5-1994

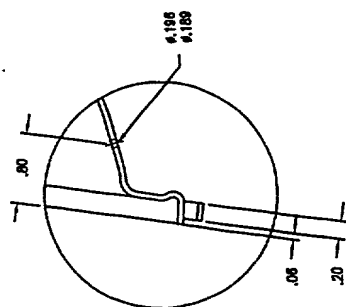
1" MAX. 1: 21/32
ANGLES: 3/4"
UNLESS SPECIFIED
DIMENSIONS IN INCHES

TITLE: Lampcone Weldment - 2K



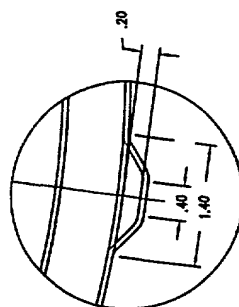
DETAIL C

SCALE: 2X



SECTION A-A


N.T.S.





DETAIL "B"

N.T.S.

NOTE:
1. REMOVE ALL BURRS, BREAK ALL EDGES AND SHARP CORNERS .01 MIN.

| | | |
|--|----------------------------------|--|
| MANUFACTURED BY: MORGENTHAU, W. 82781 CORPORATE OFFICE: CHICAGO, IL 60637 | TITLE: REFLECTOR - 2K NEMA 2B | |
| MATERIAL: REFLECTOR NEMA 2B MUSCO P/A 88-108-2B | | |
| FINISH: NONE | | |
|  TOLERANCES: JOCK ±.01 JOCK ±.008 FINISH 1/32 ANGLE 5:1 UNLESS SPECIFIED | | |



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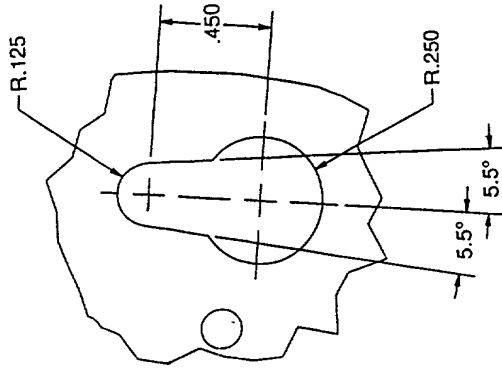
-23-




| | | |
|------------|-----------|------------------------------------|
| REVISIONS: | PART NAME | TOLERANCES UNLESS OTHERWISE NOTED: |
| | | FRACTIONAL: $\pm 1/64$ |
| | | ANGULAR: $\pm 1/2^\circ$ |
| | MATERIAL: | DECIMAL: .XX $\pm .01$ |
| | | .XXX $\pm .005$ |
| | FINISH: | DRAWN BY: |
| | | APPROVED BY: |
| | | DATE: |
| | | SCALE: |
| | | DRAWING NUMBER: |

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The following U.S. Patents 3,781, 41,008, 41,009, 41,010, 41,011, 41,012, 41,013, 41,014, 41,015, 41,016, 41,017, 41,018, 41,019, 41,020, 41,021, 41,022, 41,023, 41,024, 41,025, 41,026, 41,027, 41,028, 41,029, 41,030, 41,031, 41,032, 41,033, 41,034, 41,035, 41,036, 41,037, 41,038, 41,039, 41,040, 41,041, 41,042, 41,043, 41,044, 41,045, 41,046, 41,047, 41,048, 41,049, 41,050, 41,051, 41,052, 41,053, 41,054, 41,055, 41,056, 41,057, 41,058, 41,059, 41,060, 41,061, 41,062, 41,063, 41,064, 41,065, 41,066, 41,067, 41,068, 41,069, 41,070, 41,071, 41,072, 41,073, 41,074, 41,075, 41,076, 41,077, 41,078, 41,079, 41,080, 41,081, 41,082, 41,083, 41,084, 41,085, 41,086, 41,087, 41,088, 41,089, 41,090, 41,091, 41,092, 41,093, 41,094, 41,095, 41,096, 41,097, 41,098, 41,099, 41,100, 41,101, 41,102, 41,103, 41,104, 41,105, 41,106, 41,107, 41,108, 41,109, 41,110, 41,111, 41,112, 41,113, 41,114, 41,115, 41,116, 41,117, 41,118, 41,119, 41,120, 41,121, 41,122, 41,123, 41,124, 41,125, 41,126, 41,127, 41,128, 41,129, 41,130, 41,131, 41,132, 41,133, 41,134, 41,135, 41,136, 41,137, 41,138, 41,139, 41,140, 41,141, 41,142, 41,143, 41,144, 41,145, 41,146, 41,147, 41,148, 41,149, 41,150, 41,151, 41,152, 41,153, 41,154, 41,155, 41,156, 41,157, 41,158, 41,159, 41,160, 41,161, 41,162, 41,163, 41,164, 41,165, 41,166, 41,167, 41,168, 41,169, 41,170, 41,171, 41,172, 41,173, 41,174, 41,175, 41,176, 41,177, 41,178, 41,179, 41,180, 41,181, 41,182, 41,183, 41,184, 41,185, 41,186, 41,187, 41,188, 41,189, 41,190, 41,191, 41,192, 41,193, 41,194, 41,195, 41,196, 41,197, 41,198, 41,199, 41,200, 41,201, 41,202, 41,203, 41,204, 41,205, 41,206, 41,207, 41,208, 41,209, 41,210, 41,211, 41,212, 41,213, 41,214, 41,215, 41,216, 41,217, 41,218, 41,219, 41,220, 41,221, 41,222, 41,223, 41,224, 41,225, 41,226, 41,227, 41,228, 41,229, 41,230, 41,231, 41,232, 41,233, 41,234, 41,235, 41,236, 41,237, 41,238, 41,239, 41,240, 41,241, 41,242, 41,243, 41,244, 41,245, 41,246, 41,247, 41,248, 41,249, 41,250, 41,251, 41,252, 41,253, 41,254, 41,255, 41,256, 41,257, 41,258, 41,259, 41,260, 41,261, 41,262, 41,263, 41,264, 41,265, 41,266, 41,267, 41,268, 41,269, 41,270, 41,271, 41,272, 41,273, 41,274, 41,275, 41,276, 41,277, 41,278, 41,279, 41,280, 41,281, 41,282, 41,283, 41,284, 41,285, 41,286, 41,287, 41,288, 41,289, 41,290, 41,291, 41,292, 41,293, 41,294, 41,295, 41,296, 41,297, 41,298, 41,299, 41,300, 41,301, 41,302, 41,303, 41,304, 41,305, 41,306, 41,307, 41,308, 41,309, 41,310, 41,311, 41,312, 41,313, 41,314, 41,315, 41,316, 41,317, 41,318, 41,319, 41,320, 41,321, 41,322, 41,323, 41,324, 41,325, 41,326, 41,327, 41,328, 41,329, 41,330, 41,331, 41,332, 41,333, 41,334, 41,335, 41,336, 41,337, 41,338, 41,339, 41,340, 41,341, 41,342, 41,343, 41,344, 41,345, 41,346, 41,347, 41,348, 41,349, 41,350, 41,351, 41,352, 41,353, 41,354, 41,355, 41,356, 41,357, 41,358, 41,359, 41,360, 41,361, 41,362, 41,363, 41,364, 41,365, 41,366, 41,367, 41,368, 41,369, 41,370, 41,371, 41,372, 41,373, 41,374, 41,375, 41,376, 41,377, 41,378, 41,379, 41,380, 41,381, 41,382, 41,383, 41,384, 41,385, 41,386, 41,387, 41,388, 41,389, 41,390, 41,391, 41,392, 41,393, 41,394, 41,395, 41,396, 41,397, 41,398, 41,399, 41,400, 41,401, 41,402, 41,403, 41,404, 41,405, 41,406, 41,407, 41,408, 41,409, 41,410, 41,411, 41,412, 41,413, 41,414, 41,415, 41,416, 41,417, 41,418, 41,419, 41,420, 41,421, 41,422, 41,423, 41,424, 41,425, 41,426, 41,427, 41,428, 41,429, 41,430, 41,431, 41,432, 41,433, 41,434, 41,435, 41,436, 41,437, 41,438, 41,439, 41,440, 41,441, 41,442, 41,443, 41,444, 41,445, 41,446, 41,447, 41,448, 41,449, 41,450, 41,451, 41,452, 41,453, 41,454, 41,455, 41,456, 41,457, 41,458, 41,459, 41,460, 41,461, 41,462, 41,463, 41,464, 41,465, 41,466, 41,467, 41,468, 41,469, 41,470, 41,471, 41,472, 41,473, 41,474, 41,475, 41,476, 41,477, 41,478, 41,479, 41,480, 41,481, 41,482, 41,483, 41,484, 41,485, 41,486, 41,487, 41,488, 41,489, 41,490, 41,491, 41,492, 41,493, 41,494, 41,495, 41,496, 41,497, 41,498, 41,499, 41,500, 41,501, 41,502, 41,503, 41,504, 41,505, 41,50



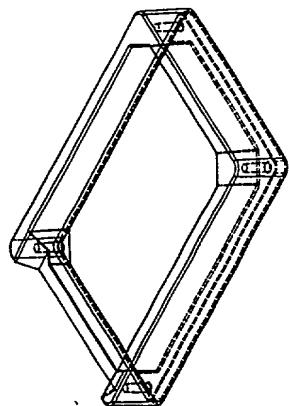
6X Detail A
Scale 2:1

| REV. | DESCRIPTION | DRWN | DATE | CHK |
|------|---|--|------|-----|
| |  | MANUFACTURING MUSCATINE, IA 52741 CORPORATE OFFICE, OSMALCOSSA, IA. 52577 | | |
| | | MATERIAL. 125 THK ALUMINUM 5032-H32 | | |
| | | FINISH: SEE NOTES | | |
| | | TITLE: REINFORCING RING | | |
| | | TOLERANCES .XX ± .01 .XX ± .005 FRACT. ±1/32 ANGLES: ±1° UNLESS SPECIFIED | | |

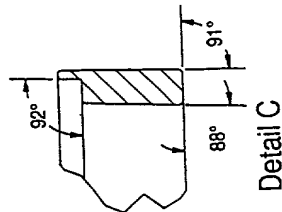
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NOTE:

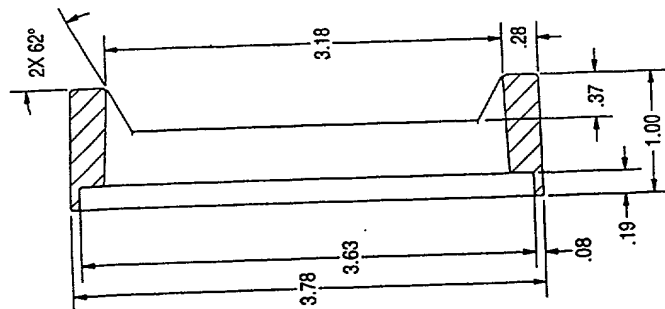
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
2. FINISH: ANODIZE PER MIL SPEC MIL-A-8625F, TYPE II, CLASS 1, CLEAR, LIGHT ETCH.
3. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.



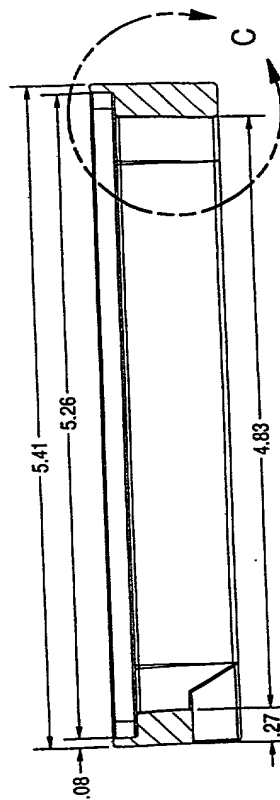
SCALE: 1/2



Detail C



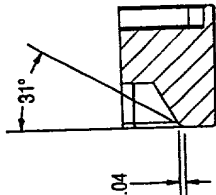
Section B-B



Section A-A

NOTE:

1. ALL FILLETS AND RADII .02 UNLESS NOTED OTHERWISE.
2. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
3. DRAFT ANGLE APPLIES ALL AROUND FEATURE AS SHOWN IN DETAIL "C".



2X View D-D

4X Ø.136 X .46 V -
#8-32 UNC-2B
V.31 FULL THREAD
.46' X V OF THREAD

4X .36 X 45*

31°

04.

MANUFACTURING. MUSCATINE, IA 52761
CORPORATE OFFICE: OSKALOOSA, IA. 52577

MANUFACTURING. MUSCATINE, IA 52761
CORPORATE OFFICE: OSKALOOSA, IA. 52577

MATERIAL: ALUMINUM TYPE 360

FINISH: NONE

TITLE: Janitor Box 2K



TOLERANCES

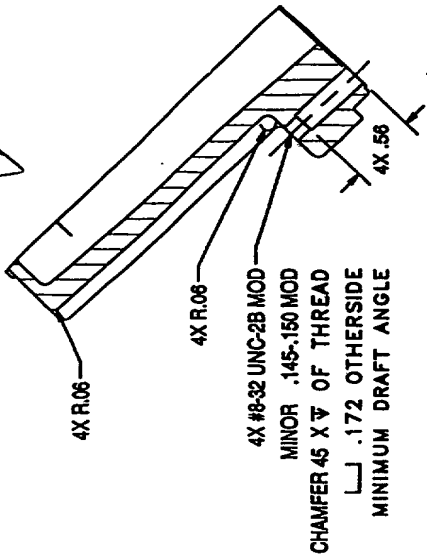
XX 2.005

ANGLES: $\pm 1^\circ$

UNLESS SPECIFIED
DIMENSIONS IN INCHES

ANSI Y14.5-1994


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NOTE:
1. ALL FILLETS AND RADII .03 UNLESS NOTED OTHERWISE.
2. REMOVE ALL BURRS. BREAK ALL SHARP CORNERS .01 MIN.
3. DRAFT ANGLE IS 2 UNLESS NOTED OTHERWISE.

Section D-D

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| | | |
|---|--|--|
|  | | MANUFACTURING: MUSCATINE, IA 52781 CORPORATE OFFICE: OSAGEOLA, IA 52577 |
| TOLERANCES: | | MATERIAL: ALUMINUM TYPE 360 |
| XXX ±.01 | | FINISH: POWDER COAT PEARL |
| XXX ±.005 | | GRAY MUSCO # MS-1020 |
| FRACT: 1/32 | | TITLE: Ignitor Lid 2K |
| ANGLE: 45° | | |
| UNLESS SPECIFIED DIMENSIONS IN INCHES | | |

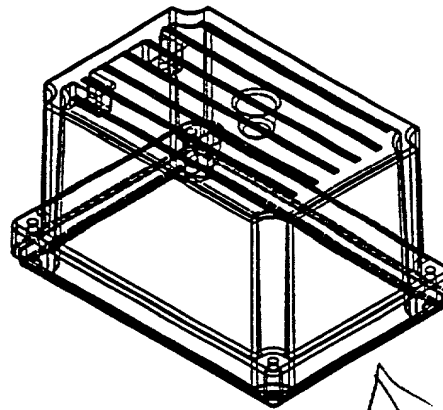


FIG. 4C

SCALE: 1/2

16

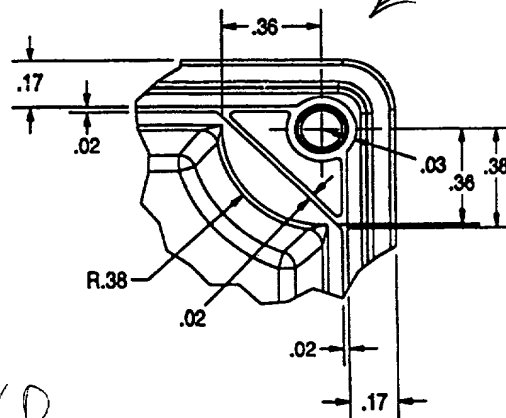
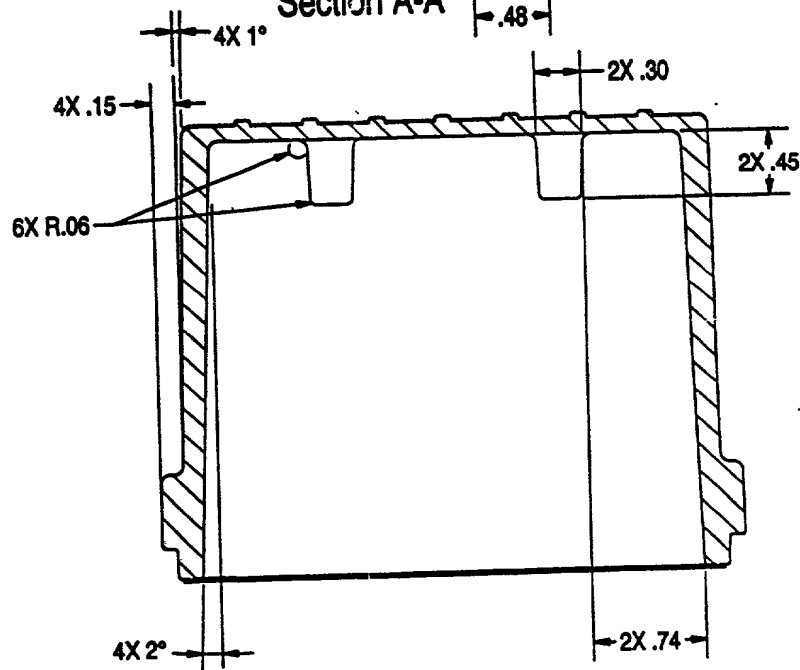
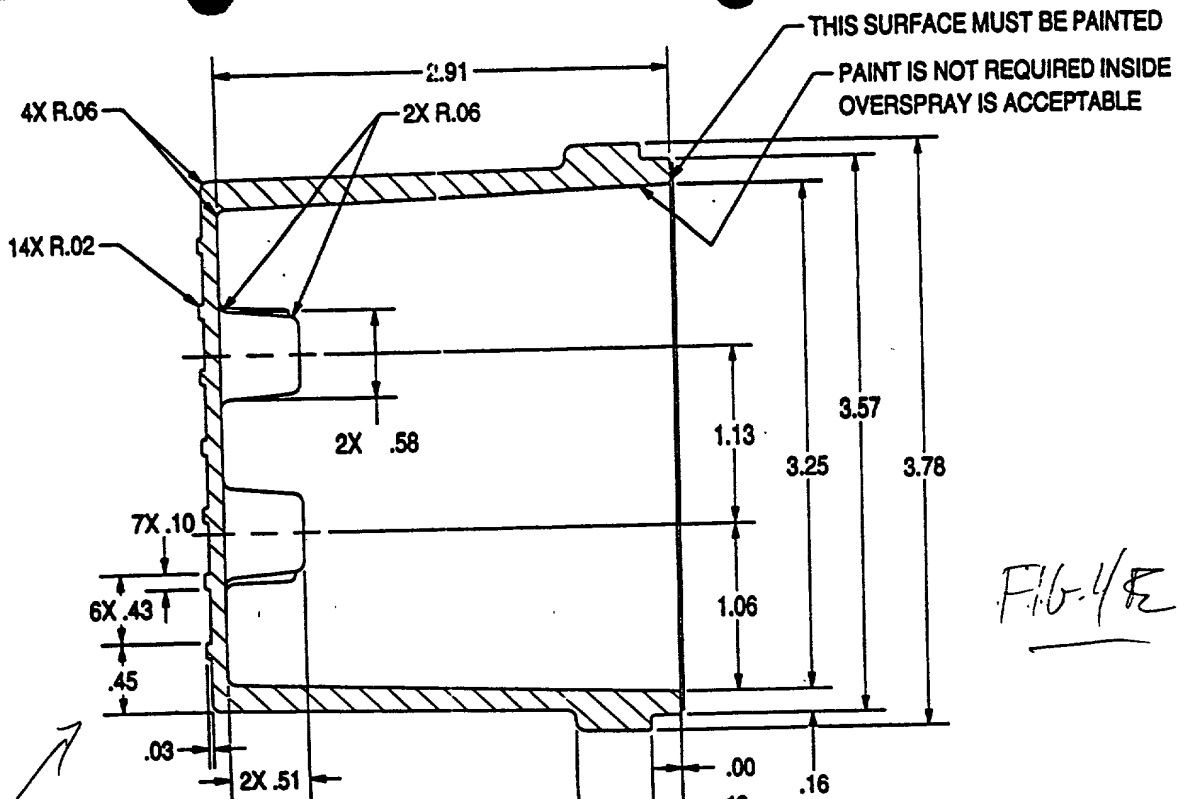


FIG. 4D

4X Detail C
Scale 2:1



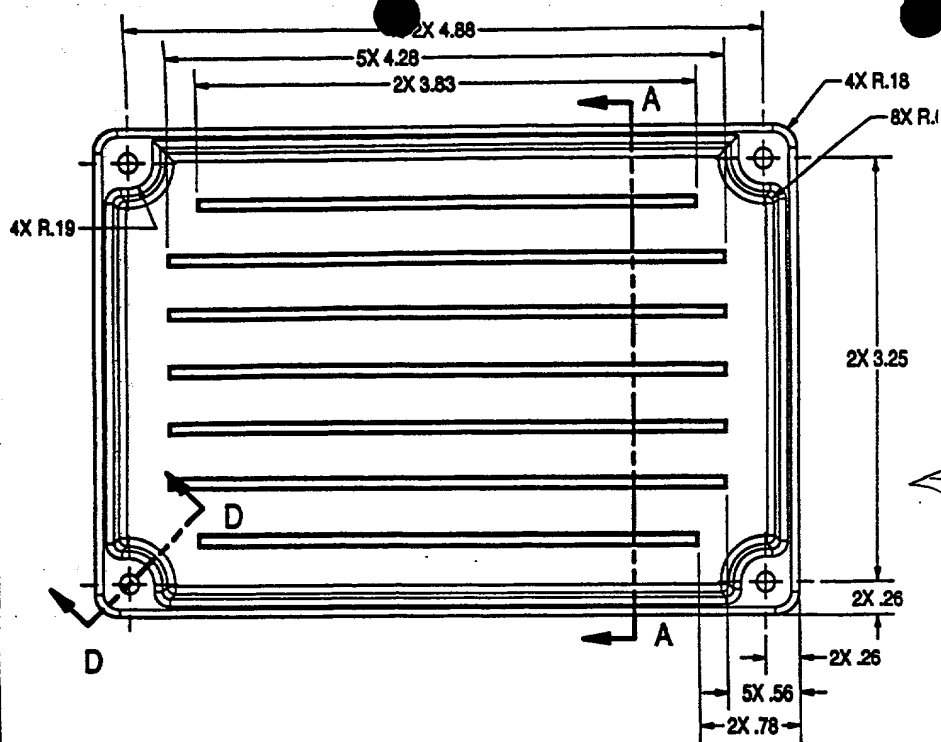


FIG. 4G

16

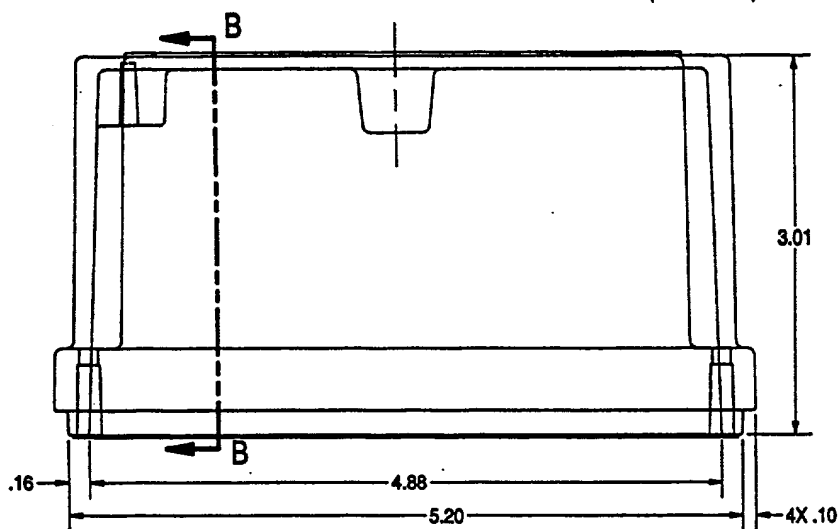


FIG. 4H

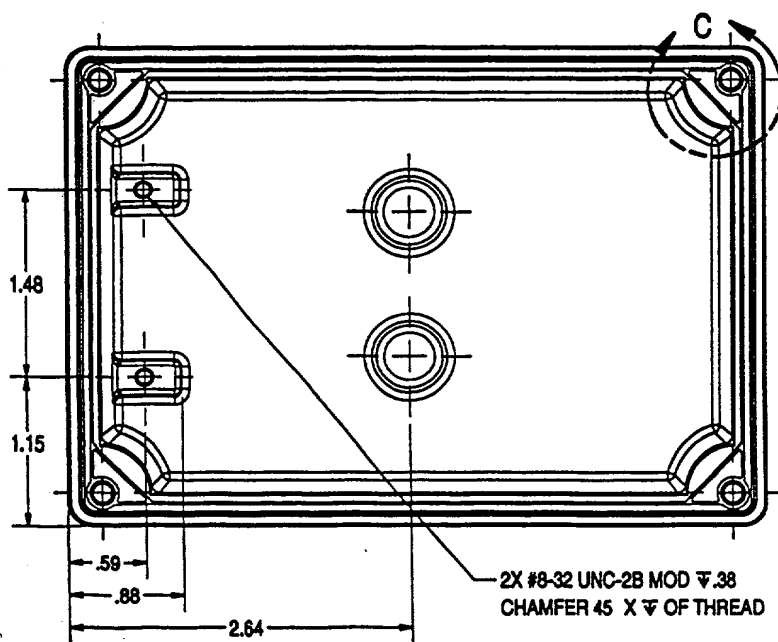


FIG. 4I

20072703 020702

| OF MATERIALS PER UNIT | | | |
|-----------------------|-----|-------------|-----------------------------------|
| ITEM | QTY | PART NUMBER | DESCRIPTION |
| 1 | 1 | 999-MT120 | 2K Lamp with Coating - Sylvania |
| 2 | 2 | LS-3425-1 | 2k Lamp Connector |
| 3 | 2 | LS-3500-1 | Lamp Spring Clamp - 2K |
| 4 | 2 | Hdw-1087-1 | Screw 6-32 x 3/16" lg button head |
| 5 | 2 | Hdw-1089-1 | Locknut 6-32 |
| 6 | 2 | Mt-920 | Connector socket |
| 7 | 2 | Ls-3479-1 | Lamp lead sleeving |

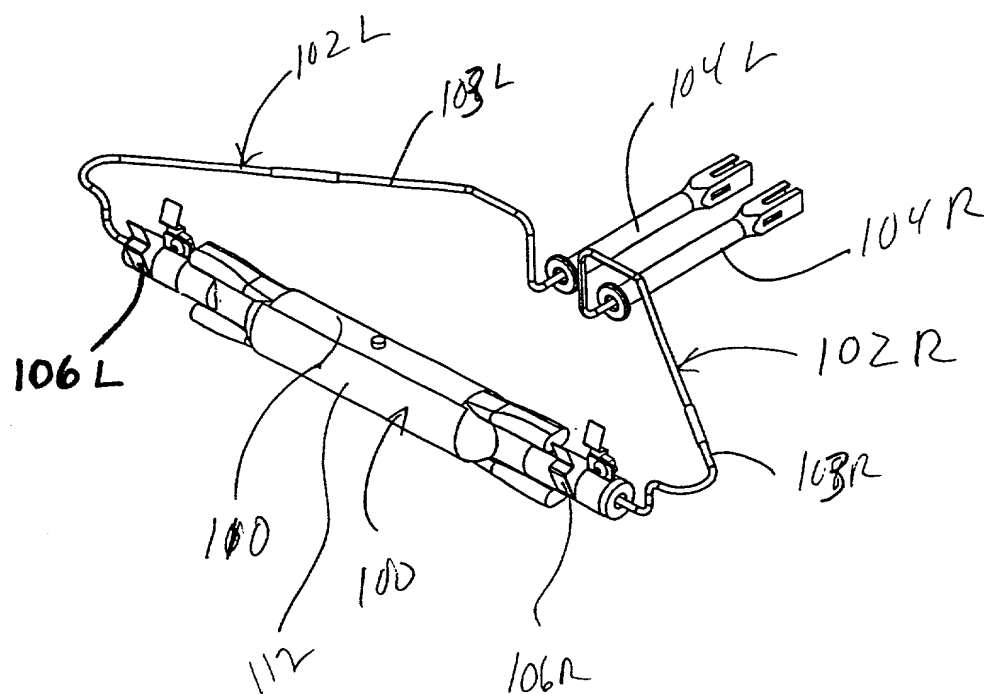
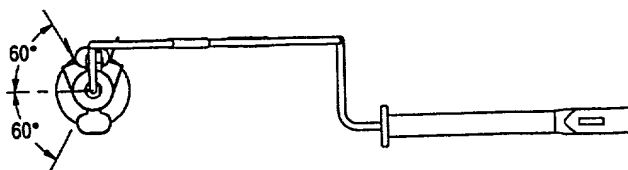


FIG. 5A


10072703.020702



COATING MUST BE CENTERED $\pm 5^\circ$ WHEN LAMP IS PLACED INTO LAMP HOLDERS

FIG. 5B

PART NO.
Ls-3406-1

| REV. | DESCRIPTION | DRWN | DATE | CH |
|------|---|------|------|----|
| |  | | | |
| | MANUFACTURING: MUSCATINE, IA 52761 CORPORATE OFFICE: OSKALOOSA, IA. 52577 | | | |
| | MATERIAL: SEE ABOVE | | | |
| | FINISH: NONE | | | |
| | TITLE: Lamp Assembly - 2K | | | |
| | C PART NO. Ls-3406-1 | | | |
| | UNLESS SPECIFIED DIMENSIONS IN INCHES | | | |

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CAD FILE #: Ls-3406-1.ktm

10072703.020700

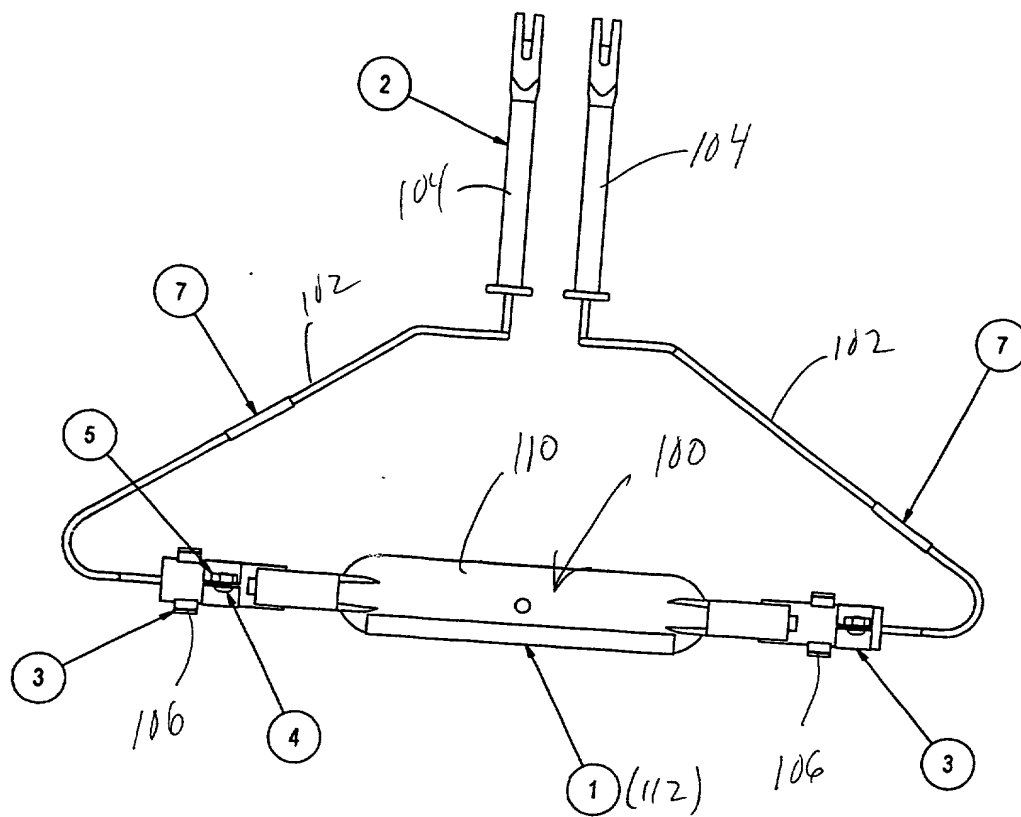
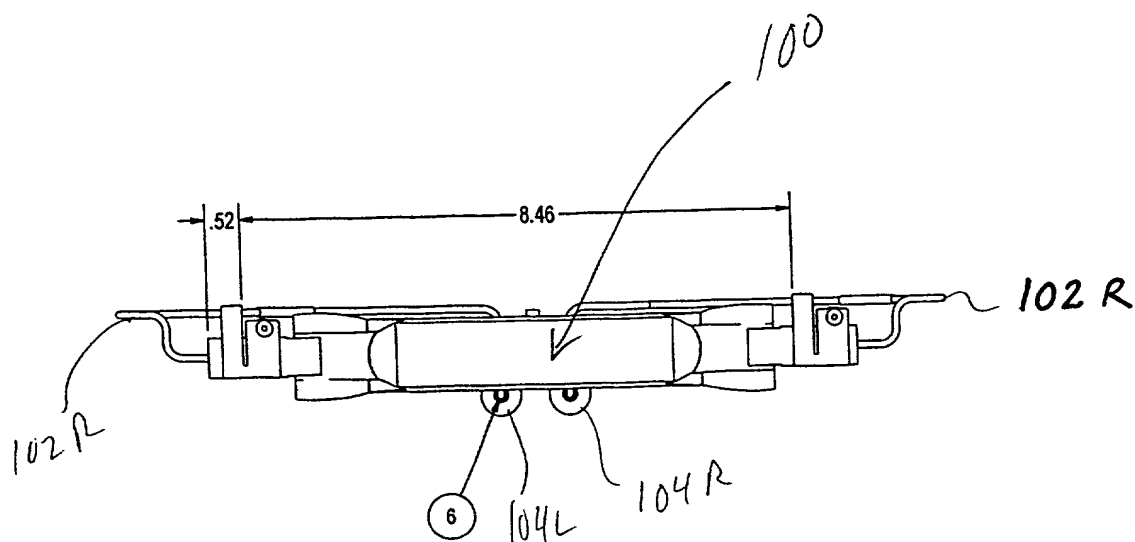


FIG 5C

10072703.020700



NOTE:

1. DO NOT TOUCH WITH BARE FINGERS. HANDLE LAMP W/ WHITE COTTON GLOVES.
2. LAMP CAN BE CLEANED WITH DISTILLED WATER OR ALCOHOL. DRY LAMP CAREFULLY WITH COTTON OR CLEAN CLOTH

FIG. 5D

202020" E02200T

PART NO.
LS-3479-1

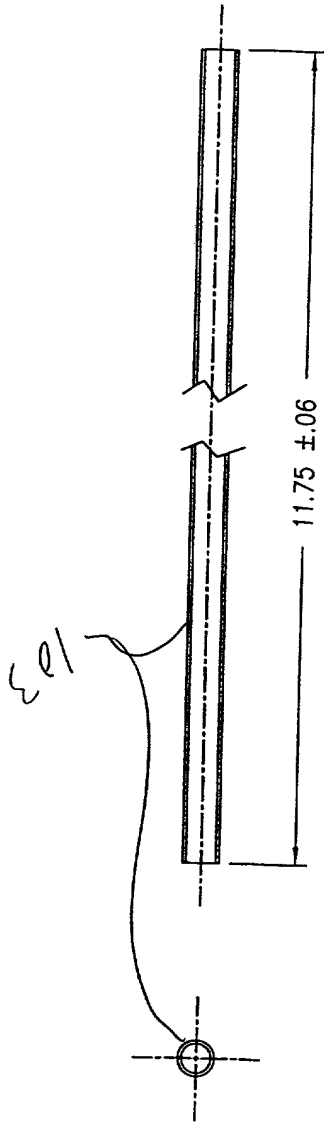



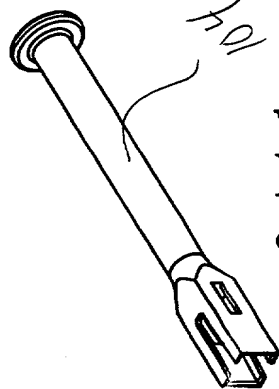
FIG. 5E

-34-

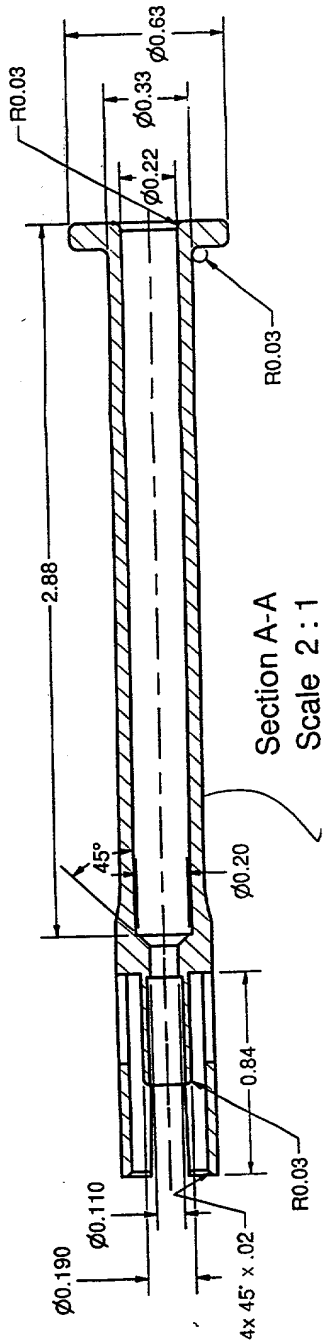
NOTE:

1. MATERIAL: HILEC INC. FIBERGLASS SLEEVING 710C #9.
2. COLOR: WHITE

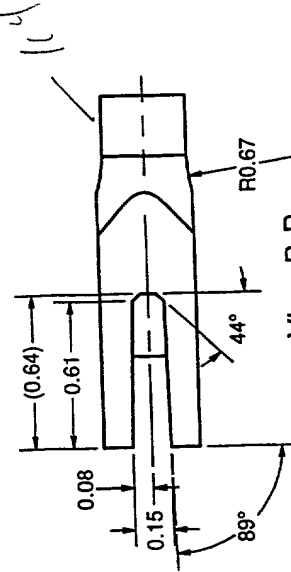
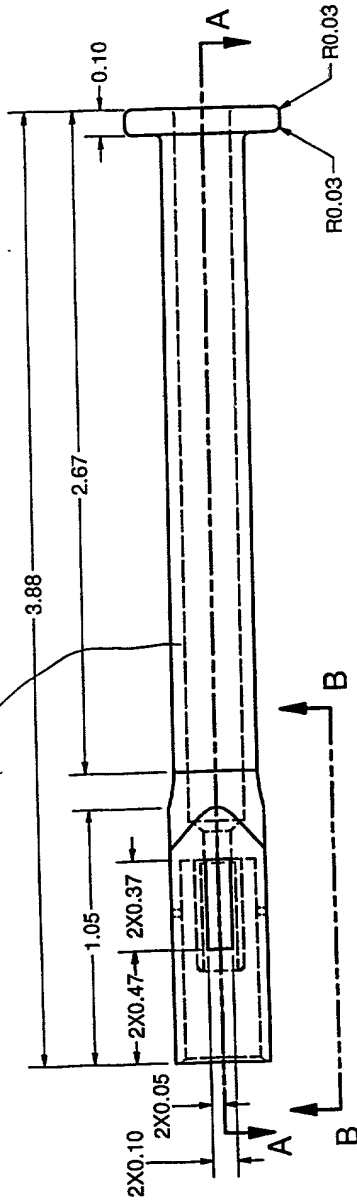
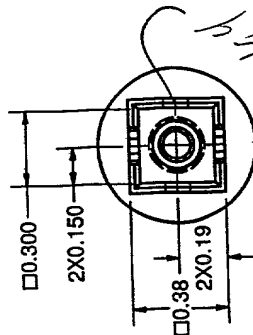
| | | | |
|---|--|---|--|
|  | | MANUFACTURING: MUSCATINE, IA 52761 CORPORATE OFFICE: OSKALOOSA, IA 52577 MATERIAL: SEE NOTE | |
| TOLERANCES: .XX ±.01 .XXX ±.005 | | FINISH: NONE | |
| FRACT: ±1/32 ANGLES: ±1° | | SCALE: 2=1 | |
| UNLESS SPECIFIED DIMENSIONS IN INCHES | | PART NO. A | |
| 3RD ANGLE PROJECTION ANSI Y14.5-1984 | | TITLE: SLEEVING- LAMP LEADS | |
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| | | CADD FILE # LS-3479-1 | |



Scale 1:1



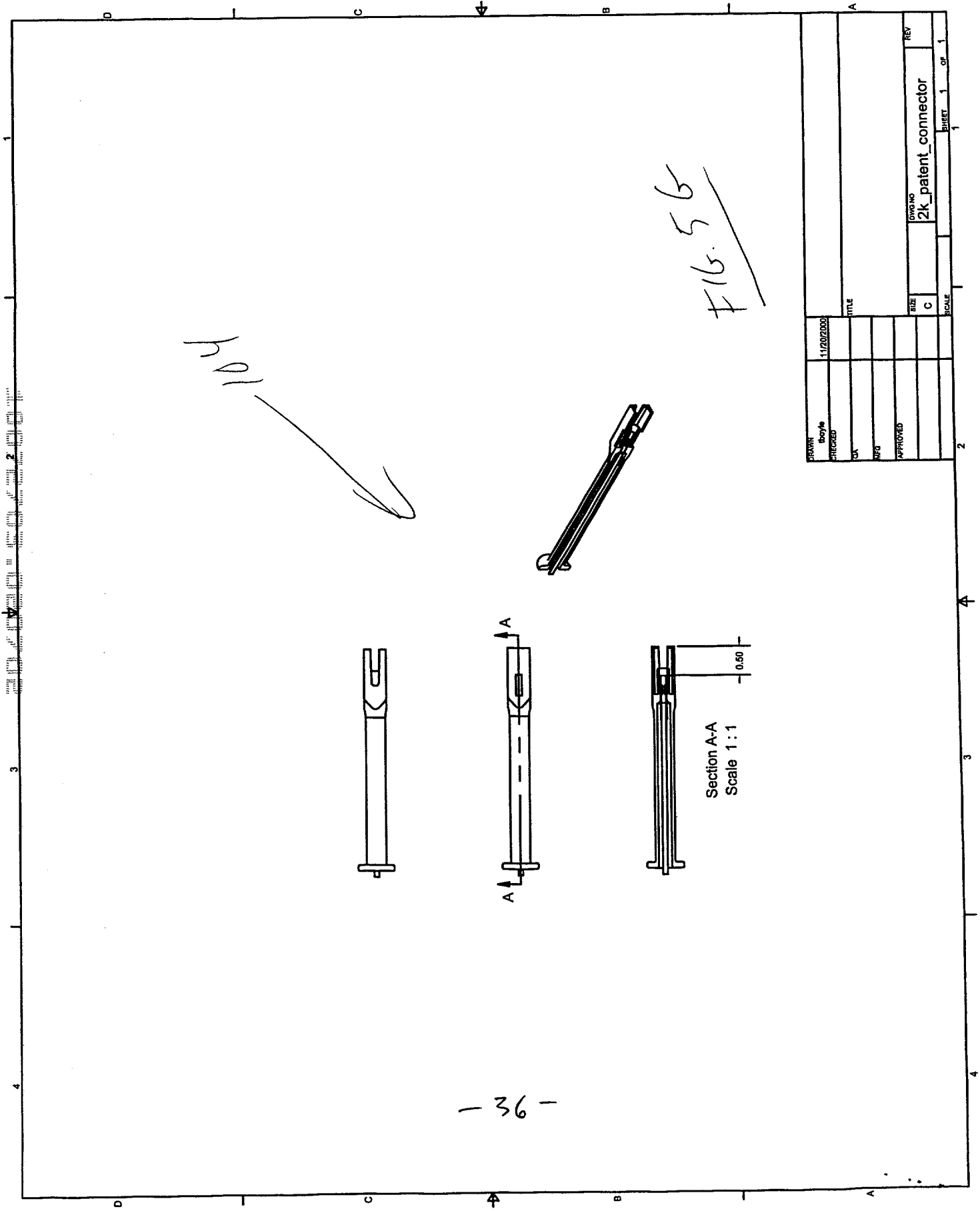
Section A-A
Scale 2:1



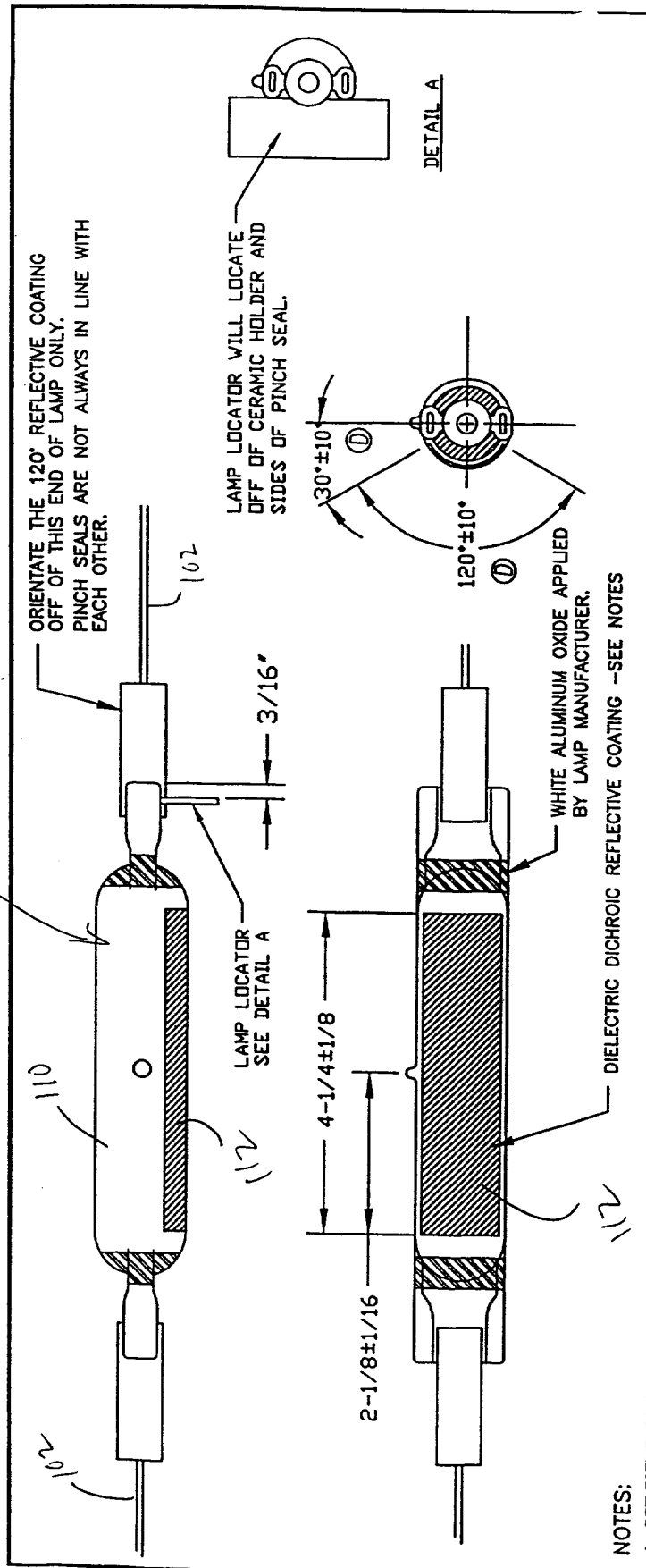
View B-B
Scale 2:1

NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
2. ALL FILLETS AND RADII .03 UNLESS NOTED OTHERWISE.

| REV. | DESCRIPTION | DRWN | DATE | CH | ECN |
|--|-------------|------|------|----|-----|
| | | | | | |
| <p>MANUFACTURING: MUSCATINE, IA 52761 CORPORATE OFFICE: OSKALOOSA, IA 52577 MATERIAL: STANYL TW300/TW341 FINISH: NONE TITLE: 2K Lamp Connector</p> | | | | | |
| <p>TOLERANCES XX ±.01 XXX ±.005 FRACT: 1/32 ANGLES: 1° UNLESS SPECIFIED DIMENSIONS IN INCHES</p> | | | | | |
| <p>ANSI Y14.5-1994 3RD ANGLE PROJECTION</p> | | | | | |



| | | | |
|---------|------------|----------|---------------------|
| DATE | 11/20/2009 | TITLE | 2k_patent_connector |
| DRAWN | | BY | |
| CHECKED | | APP'D | |
| OK | | APPROVED | |
| SIZE | C | DWG NO | |
| SCALE | | REV | |
| SHEET | 1 | OF | 1 |



NOTES:

1. REFLECTIVE COATED PARTS SHALL HAVE A TRANSMISSION AT NORMAL INCIDENCE OF LESS THAN 1% AVERAGE FROM 400nm TO 700nm, AND GREATER THAN 70% AVERAGE TRANSMISSION AT NORMAL INCIDENCE FROM 800nm TO 1500nm. COATING SHALL BE DESIGNED FOR GREATER THAN 90% REFLECTION FROM 400nm TO 700nm.
2. REFLECTIVE COATING SHALL SURVIVE RAPID THERMAL SHOCK TO 900 DEGREES C. THIS SHALL BE TESTED FOR BY INSERTION OF A COATED WITNESS PLATE INTO A TEST CHAMBER HELD AT 900 DEGREES C; HOLDING THE WITNESS AT ROOM TEMPERATURE FOR 30 MINUTES, AND RAPID WITHDRAWAL OF THE WITNESS TO ROOM TEMPERATURE. THE COATING ON THE WITNESS PLATE SHALL SURVIVE THIS TEMPERATURE CYCLE WITH NO LOSS OF COATING.
3. REFLECTIVE COATING SHALL SURVIVE STANDARD 24 HOUR HUMIDITY TEST AT 49 DEGREES C, AND PASS QUICK TAPE TEST.
4. FILM CRACKING AND CRYSTALLIZATION OF THE REFLECTIVE COATING SHALL BE ACCEPTABLE, PROVIDED THAT NO COATING VOID SHALL BE LARGER THAN 0.010 INCHES IN ITS LARGEST DIMENSION.
5. COAT 360 DEGREES OF THE ARC TUBE WITH UV BLOCKING FILM. THE UV BLOCKING SHALL PRODUCE A COATING DESIGNED TO HAVE $T < 1\%$ AVERAGE FROM 200nm TO 390nm WHILE MAINTAINING $T > 85\%$ AVERAGE IN THE VISIBLE, APPROXIMATELY 400nm TO 700nm. THE FILM MUST WITHSTAND LONG TERM EXPOSURE TO APPROXIMATELY 1000° C.

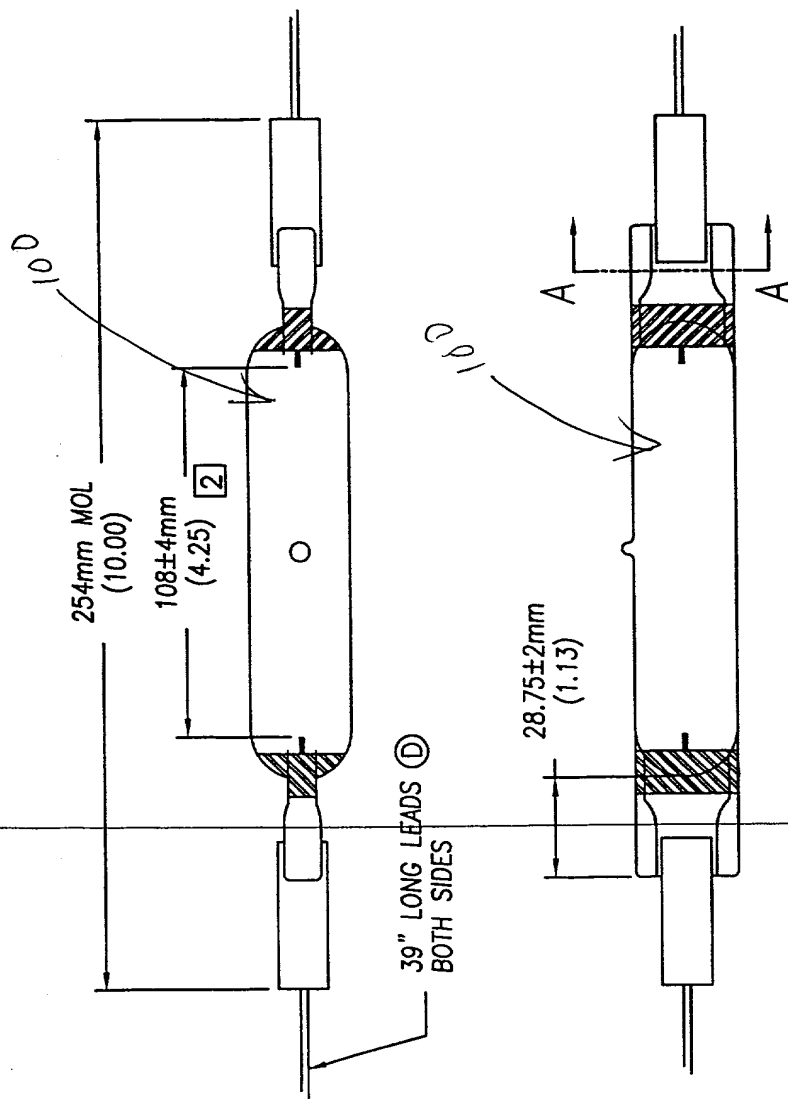
Fig. 5H

| PART NAME | | TOLERANCES UNLESS OTHERWISE NOTED | |
|---------------------------|--|-----------------------------------|-----------------|
| SYLVANIA 2K LAMP COATING | | FRACTIONAL | $\pm 1/32$ |
| MATERIAL MUSCO P/N MT-010 | | ANGULAR | $\pm 1/2^\circ$ |
| (LAMP-SYLVANIA M200T9/DE) | | DECIMAL | .XX $\pm .01$ |
| FINISH SEE NOTES | | XXX | $\pm .005$ |

| | |
|-----------------------|--|
| | |
| SPORTS-LIGHTING, INC. | |

| |
|------------|
| SCALE: 1=2 |
|------------|

PART NO.
MT-010



3. SYLVANIA LAMP NUMBER M200T9/DE

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ANSI Y14.5-1994

TOLERANCES:

XX ±.01

.XXX ±.005

FRAC: $\pm 1/32$

ANGLES: $\pm 1^\circ$

UNLESS SPECIFIED
DIMENSIONS IN INCHES

MANUFACTURING: MUSCATINE, IA 52761
CORPORATE OFFICE: OSKALOOSA, IA. 52577

MATERIAL: SEE NOTE

FINISH: NONE

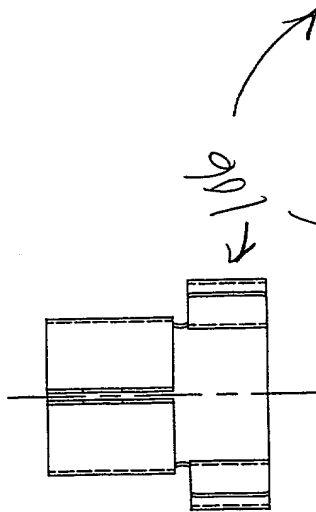
TITLE: SYLVANIA 2K LAMP

PART NO.

MT-010

CAO FILE #: MT-010-D

- 38 -



106

SCALE: 1:1

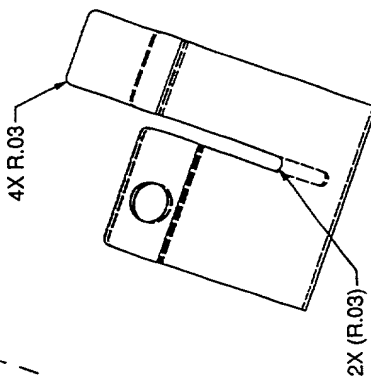
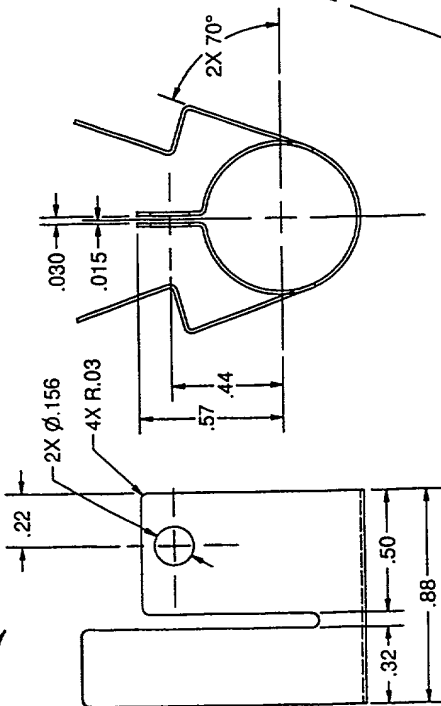
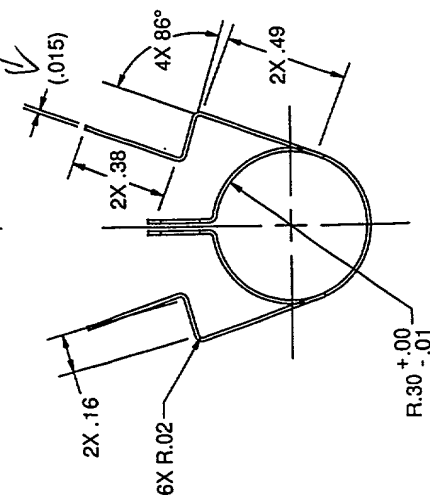


FIG. 55

- NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
 2. MATERIAL: 300 SERIES STAINLESS STEEL FULL HARD TEMPER ROCKWELL C 40-45.
 3. PASSIVATE PER ASTM A380.
 4. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

| REV. | DESCRIPTION | DRWN | DATE | CHKD |
|------|--|------|------|------|
| 1 | MANUFACTURING, MUSCATINE, IA 52761 CORPORATE OFFICE: OSKALOOSA, IA 52577 | | | |
| 2 | MATERIAL: .015 THK STAINLESS SEE NOTE | | | |
| 3 | FINISH: SEE NOTES | | | |
| 4 | TOLERANCES: XX ± .01 XXX ± .005 | | | |
| 5 | FRACT: 1/32 ANGLES: 1° | | | |
| 6 | UNLESS SPECIFIED DIMENSIONS IN INCHES | | | |
| 7 | ANSI Y14.5-1994 | | | |
| 8 | THE TECHNICAL INFORMATION PROVIDED ON THIS DRAWING IS THE CONFIDENTIAL PROPERTY OF MACRO LIGHTING INC. AND REPRODUCTION OR USE OF THIS INFORMATION FOR ANYTHING OTHER THAN ITS LIMITED, INTENDED PURPOSE AS TO THE PROJECT, WITHOUT THE WRITTEN PERMISSION OF MACRO LIGHTING, INC. IS PROHIBITED | | | |
| 9 | TITLE: Lamp Spring Clamp - 2K | | | |
| 10 | PART NO. LS-3500-1 | | | |
| 11 | CAD FILE # LS-3500-1.WP | | | |

PART NO.
LS-3401-1

| BILL OF MATERIALS PER UNIT | | |
|----------------------------|-----|-------------------------------------|
| ITEM | QTY | DESCRIPTION |
| 1 | 2 | Parabold Spring Clamp Assembly - 2K |
| 2 | 1 | Reinforcing Ring - 2K |
| 3 | 1 | Lamp Bracket Left - 2K |
| 4 | 1 | Lamp Bracket Right - 2K |
| 5 | 1 | Lampholder - Left |
| 6 | 1 | Lampholder - Right |
| 7 | 4 | Wire Clip - 2K |
| 8 | 6 | Pop rivet 3/32" dia. |

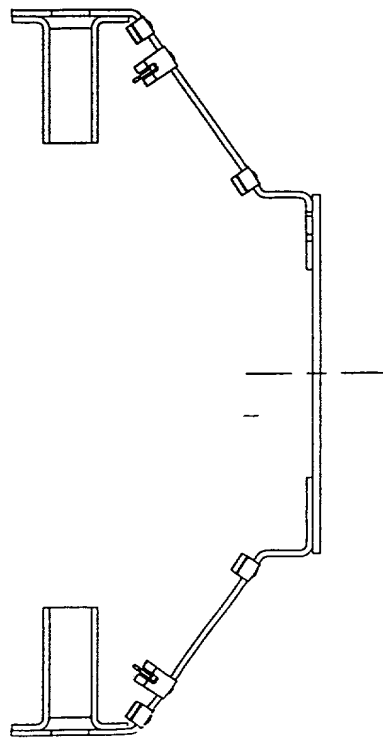
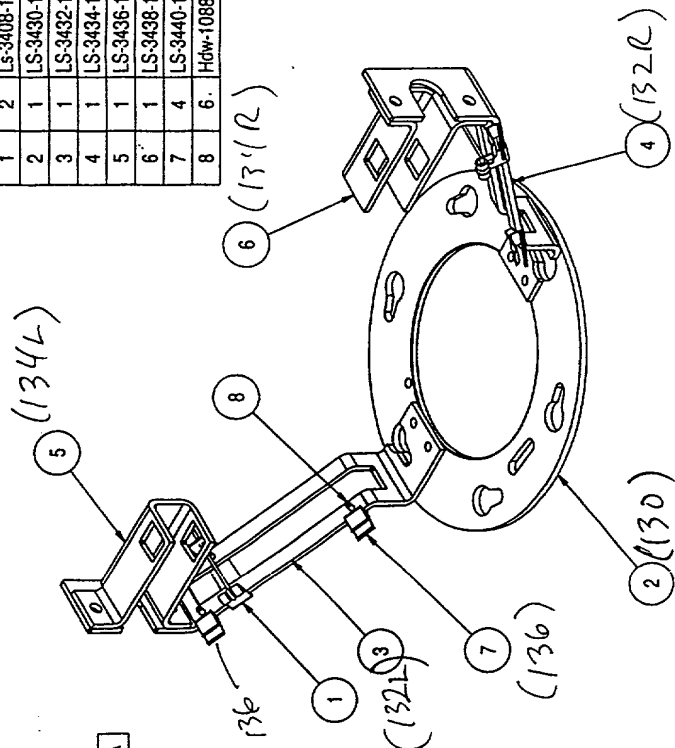


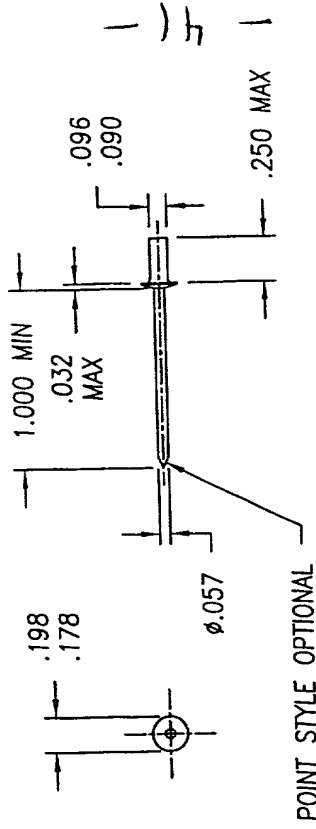
Fig. 6A

| REV. | DESCRIPTION | DRWN | DATE | CHK |
|---|---|------|------|-----|
| 1 | MANUFACTURING MUSCATINE, IA 52761 CORPORATE OFFICE OSKALOOSA, IA 52577 | | | |
| MATERIAL: SEE ABOVE | | | | |
| FINISH: NONE | | | | |
| TITLE: Lampholder Assembly - 2K B | | | | |
| PART NO. LS-3401-1 | | | | |
| SCALE 1=2 | | | | |
| TOLERANCES XX ± .01 XXX ± .005 FRACT: 1/32 ANGLES: 1° UNLESS SPECIFIED DIMENSIONS IN INCHES | | | | |
| ANSI Y14.3 1994 | | | | |

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MATERIAL SPECIFICATIONS

1. NAME: DOME HEAD BLIND RIVET
2. MATERIAL: ALUMINUM BODY, ALUMINUM MANDREL
3. SIZE: RIVET #41 (3/32 NOM.)
4. GRIP RANGE: .020"-.125"
5. RECOMMENDED HOLE SIZE: .097"-.100"
6. RECOMMENDED DRILL SIZE: #41
7. FINISH: ANODIZE PER MIL SPEC MIL-A-8625F, TYPE II, CLASS 1, CLEAR, LIGHT ETCH.



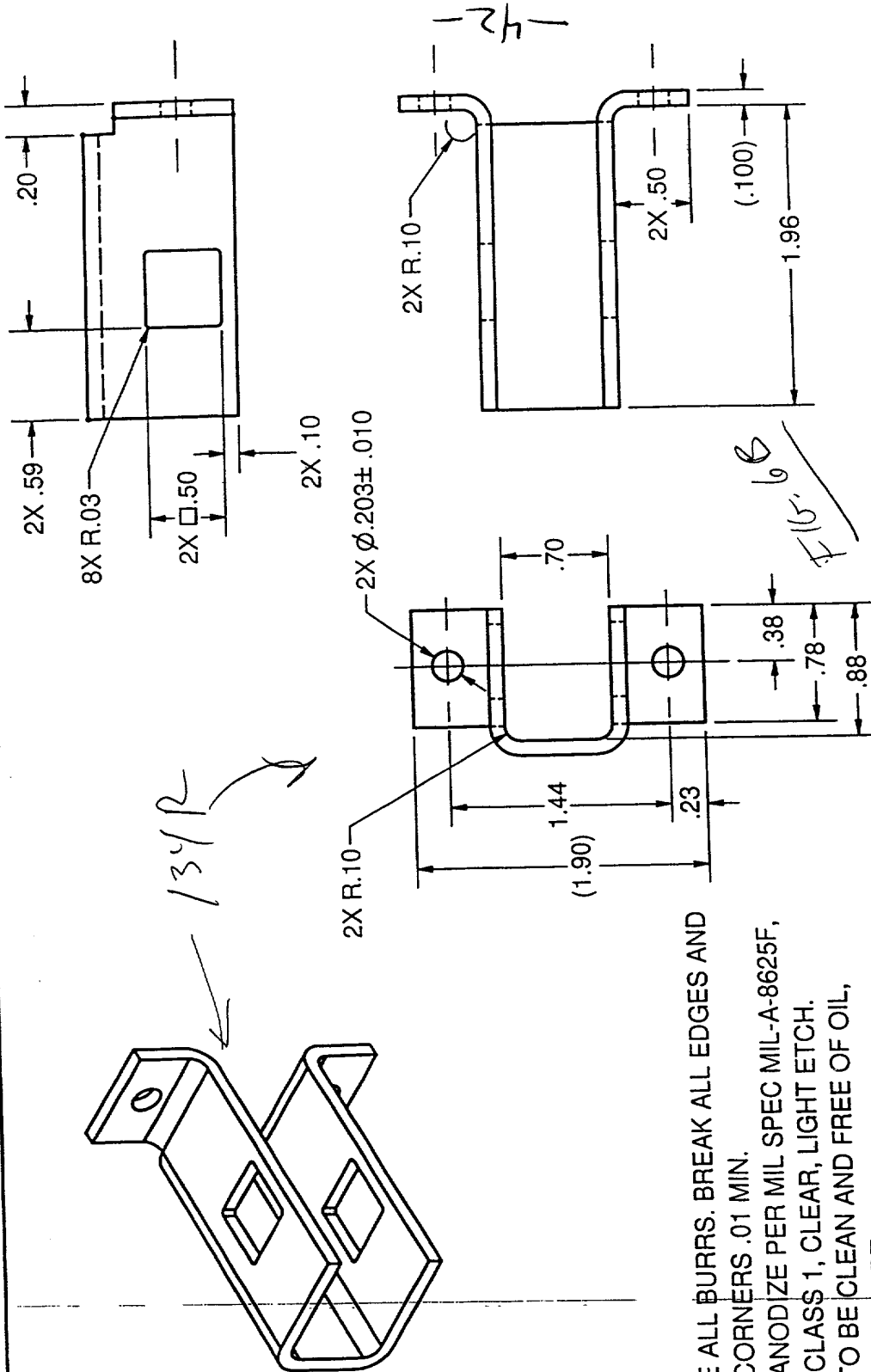
NOTE:

1. FASTENER SHALL COMPLY WITH INDUSTRIAL FASTENER INSTITUTE STANDARDS.

| | | | |
|---|--|---|--|
| | | MANUFACTURING: MUSCATINE, IA 52761 CORPORATE OFFICE: OSKALOOSA, IA 52577 | |
| | | MATERIAL: SEE ABOVE | |
| | | FINISH: SEE ABOVE | |
| TOLERANCES: .XX $\pm .01$.XXX $\pm .005$ | | SCALE: 1=1 | |
| FRACT: $\pm 1/32$ ANGLES: $\pm 1^\circ$ | | PART NO. | |
| UNLESS SPECIFIED DIMENSIONS IN INCHES | | TITLE: BLIND RIVET DOME HEAD #41 (3/32" NOM) | |
| ANSI Y14.5-1994 | | HDW-1088-1 | |
| 3RD ANGLE PROJECTION | | CADD FILE # HDW-1088-1 | |
| <p>The technical information provided on this drawing is the confidential property of Musco Lighting Inc. and reproduction of this drawing or use of this information for anything other than its limited, intended purpose as to this project, without the written permission of Musco Lighting, Inc. is prohibited.</p> | | | |
| REV | | | |

202020" E022200T

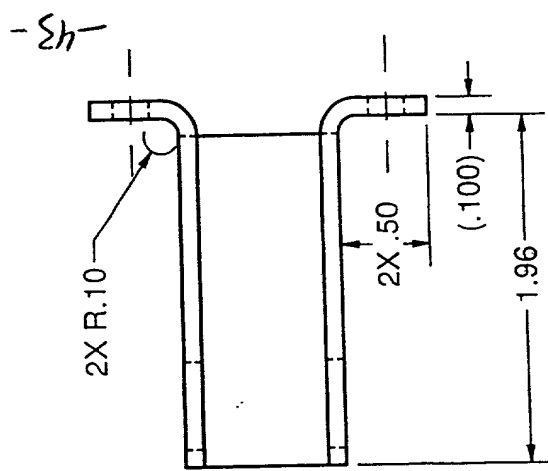
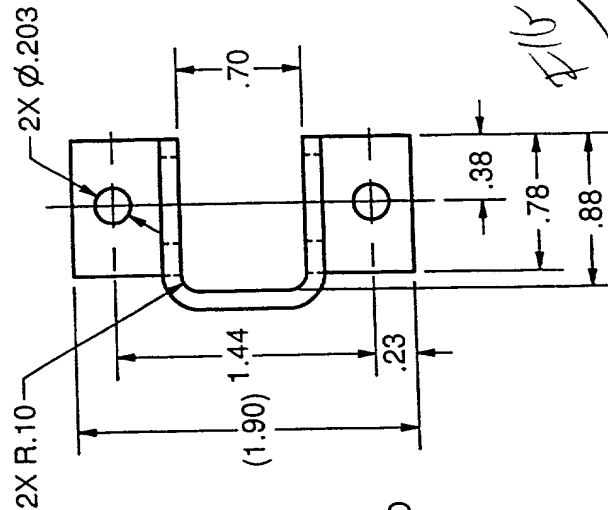
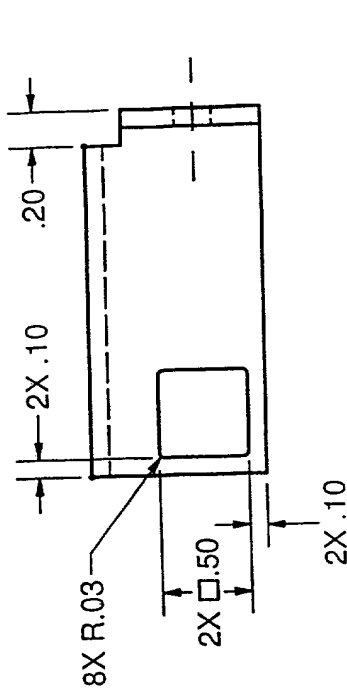
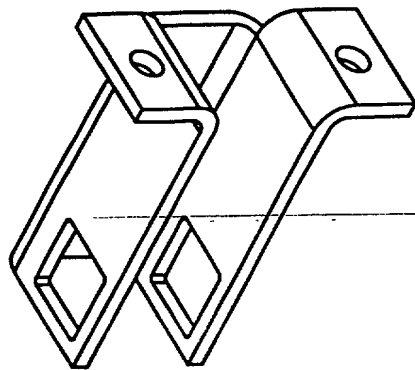
PART NO.
LS-3438-1



- NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
 2. FINISH: ANODIZE PER MIL SPEC MIL-A-8625F, TYPE II, CLASS 1, CLEAR, LIGHT ETCH.
 3. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

| | | | | | | | | | | | | | |
|--|--|------------------------------------|--|------------------|--|---------------|--|---------------------------|--|----------------------|--|--|--|
| DRWI | | MANUFACTURING: MUSCATINE, IA 52761 | | DATE | | CHKI | | APVD: | | SCALE: 1=1 | | PART NO. | |
| CORPORATE OFFICE: OSKALOOSA, IA. 52577 | | MATERIAL: .100 THK ALUMINUM | | FINISH: 5052-H32 | | SEE NOTES | | TITLE: Lampholder - Right | | A | | LS-3438-1 | |
| TOLERANCES: | | .XX ±.01 | | .XXX ±.005 | | ANGLES: ±1/32 | | UNLESS SPECIFIED | | DIMENSIONS IN INCHES | | ANSI Y14.5-1994 | |
| 3RD ANGLE PROJECTION | | APVD | | CHKD | | DATE | | DRWN | | DESCRIPTION | | THE TECHNICAL INFORMATION PROVIDED ON THIS DRAWING IS THE CONFIDENTIAL PROPERTY OF MUSCO LIGHTING INC. AND REPRODUCTION OF THIS DRAWING OR USE OF THIS INFORMATION FOR ANYTHING OTHER THAN ITS LIMITED, INTENDED PURPOSE AS TO THIS PROJECT, WITHOUT THE WRITTEN PERMISSION OF MUSCO LIGHTING, INC. IS PROHIBITED. | |
| REV. | | ECN | | APVD | | CHKD | | DATE | | DRWN | | DESCRIPTION | |

CAD FILE #: LS-3438-1.dpt

PART NO.
LS-3436-1

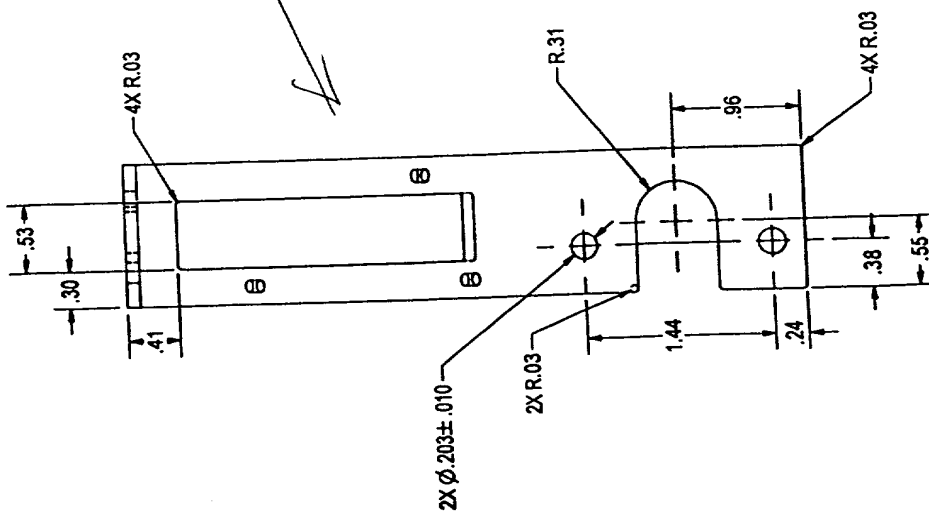
- NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
 2. FINISH: ANODIZE PER MIL SPEC MIL-A-8625F, TYPE II, CLASS 1, CLEAR, LIGHT ETCH.
 3. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.



| | | | | | | | |
|--|-------------|------|------|---|------|-----|----------------------|
| MUSCO Lighting TOLERANCES: .XX ±.01 .XXX ±.005 FRACT: 1/32 ANGLES: ±1° UNLESS SPECIFIED DIMENSIONS IN INCHES | | | | DRW MANUFACTURING: MUSCATINE, IA 52761 DATI CORPORATE OFFICE: OSKALOOSA, IA, 52577 CHK: MATERIAL: 100 THK ALUMINUM 5052-H32 APPVD: FINISH: SEE NOTES SCALE: 1=1 PART NO. LS-3436-1 | | | |
| REV. | DESCRIPTION | DRWN | DATE | CHKD | APVD | ECN | 3RD ANGLE PROJECTION |
| THE TECHNICAL INFORMATION PROVIDED ON THIS DRAWING IS THE CONFIDENTIAL PROPERTY OF MUSCO LIGHTING INC. AND REPRODUCTION OF THIS DRAWING OR USE OF THIS INFORMATION FOR ANYTHING OTHER THAN ITS LIMITED INTENDED PURPOSE IS PROHIBITED. WITHOUT THE WRITTEN PERMISSION OF MUSCO LIGHTING, INC. IS PROHIBITED. | | | | | | | |
| TITLE: Lampholder - Left | | | | A | | | |

PART NO.
LS-3497-1

| Variable | Mean | SD | Min | Max |
|-------------------------------------|------|------|-----|-----|
| Age | 35.2 | 12.5 | 18 | 65 |
| Gender | 1.2 | 0.4 | 1 | 2 |
| Marital status | 1.5 | 0.5 | 1 | 3 |
| Education | 12.5 | 2.1 | 9 | 16 |
| Income | 15.2 | 3.8 | 10 | 25 |
| Health status | 1.8 | 0.6 | 1 | 3 |
| Stress level | 2.5 | 1.2 | 1 | 4 |
| Life satisfaction | 3.2 | 1.5 | 1 | 5 |
| Work engagement | 4.1 | 1.8 | 1 | 6 |
| Organizational commitment | 4.5 | 2.0 | 1 | 7 |
| Job satisfaction | 4.8 | 2.2 | 1 | 7 |
| Turnover intention | 1.5 | 0.8 | 1 | 3 |
| Organizational citizenship behavior | 5.2 | 2.5 | 1 | 8 |
| Employee well-being | 3.8 | 1.9 | 1 | 6 |
| Work-life balance | 3.5 | 1.7 | 1 | 6 |
| Job design | 4.2 | 2.1 | 1 | 7 |
| Supervisor support | 4.6 | 2.3 | 1 | 7 |
| Peer support | 4.3 | 2.2 | 1 | 7 |
| Organizational support | 4.7 | 2.4 | 1 | 7 |
| Job security | 4.9 | 2.5 | 1 | 7 |
| Job stability | 4.8 | 2.4 | 1 | 7 |
| Job autonomy | 4.4 | 2.3 | 1 | 7 |
| Job variety | 4.6 | 2.4 | 1 | 7 |
| Job challenge | 4.5 | 2.3 | 1 | 7 |
| Job responsibility | 4.7 | 2.4 | 1 | 7 |
| Job interest | 4.8 | 2.5 | 1 | 7 |
| Job motivation | 4.9 | 2.6 | 1 | 7 |
| Job satisfaction | 4.8 | 2.5 | 1 | 7 |
| Job engagement | 4.7 | 2.4 | 1 | 7 |
| Job commitment | 4.6 | 2.3 | 1 | 7 |
| Job loyalty | 4.5 | 2.2 | 1 | 7 |
| Job dedication | 4.4 | 2.1 | 1 | 7 |
| Job involvement | 4.3 | 2.0 | 1 | 7 |
| Job identification | 4.2 | 1.9 | 1 | 7 |
| Job attachment | 4.1 | 1.8 | 1 | 7 |
| Job belongingness | 4.0 | 1.7 | 1 | 7 |
| Job connectedness | 3.9 | 1.6 | 1 | 7 |
| Job relatedness | 3.8 | 1.5 | 1 | 7 |
| Job meaningfulness | 3.7 | 1.4 | 1 | 7 |
| Job purpose | 3.6 | 1.3 | 1 | 7 |
| Job significance | 3.5 | 1.2 | 1 | 7 |
| Job impact | 3.4 | 1.1 | 1 | 7 |
| Job contribution | 3.3 | 1.0 | 1 | 7 |
| Job value | 3.2 | 0.9 | 1 | 7 |
| Job worth | 3.1 | 0.8 | 1 | 7 |
| Job importance | 3.0 | 0.7 | 1 | 7 |
| Job relevance | 2.9 | 0.6 | 1 | 7 |
| Job applicability | 2.8 | 0.5 | 1 | 7 |
| Job feasibility | 2.7 | 0.4 | 1 | 7 |
| Job practicality | 2.6 | 0.3 | 1 | 7 |
| Job usability | 2.5 | 0.2 | 1 | 7 |
| Job accessibility | 2.4 | 0.1 | 1 | 7 |
| Job availability | 2.3 | 0.0 | 1 | 7 |
| Job proximity | 2.2 | 0.0 | 1 | 7 |
| Job convenience | 2.1 | 0.0 | 1 | 7 |
| Job simplicity | 2.0 | 0.0 | 1 | 7 |
| Job clarity | 1.9 | 0.0 | 1 | 7 |
| Job transparency | 1.8 | 0.0 | 1 | 7 |
| Job openness | 1.7 | 0.0 | 1 | 7 |
| Job honesty | 1.6 | 0.0 | 1 | 7 |
| Job integrity | 1.5 | 0.0 | 1 | 7 |
| Job trustworthiness | 1.4 | 0.0 | 1 | 7 |
| Job reliability | 1.3 | 0.0 | 1 | 7 |
| Job predictability | 1.2 | 0.0 | 1 | 7 |
| Job consistency | 1.1 | 0.0 | 1 | 7 |
| Job uniformity | 1.0 | 0.0 | 1 | 7 |
| Job regularity | 0.9 | 0.0 | 1 | 7 |
| Job orderliness | 0.8 | 0.0 | 1 | 7 |
| Job tidiness | 0.7 | 0.0 | 1 | 7 |
| Job neatness | 0.6 | 0.0 | 1 | 7 |
| Job cleanliness | 0.5 | 0.0 | 1 | 7 |
| Job hygiene | 0.4 | 0.0 | 1 | 7 |
| Job safety | 0.3 | 0.0 | 1 | 7 |
| Job security | 0.2 | 0.0 | 1 | 7 |
| Job stability | 0.1 | 0.0 | 1 | 7 |
| Job continuity | 0.0 | 0.0 | 1 | 7 |
| Job permanence | 0.0 | 0.0 | 1 | 7 |
| Job duration | 0.0 | 0.0 | 1 | 7 |
| Job length | 0.0 | 0.0 | 1 | 7 |
| Job time | 0.0 | 0.0 | 1 | 7 |
| Job space | 0.0 | 0.0 | 1 | 7 |
| Job matter | 0.0 | 0.0 | 1 | 7 |
| Job energy | 0.0 | 0.0 | 1 | 7 |
| Job soul | 0.0 | 0.0 | 1 | 7 |
| Job spirit | 0.0 | 0.0 | 1 | 7 |
| Job mind | 0 | | | |

6917



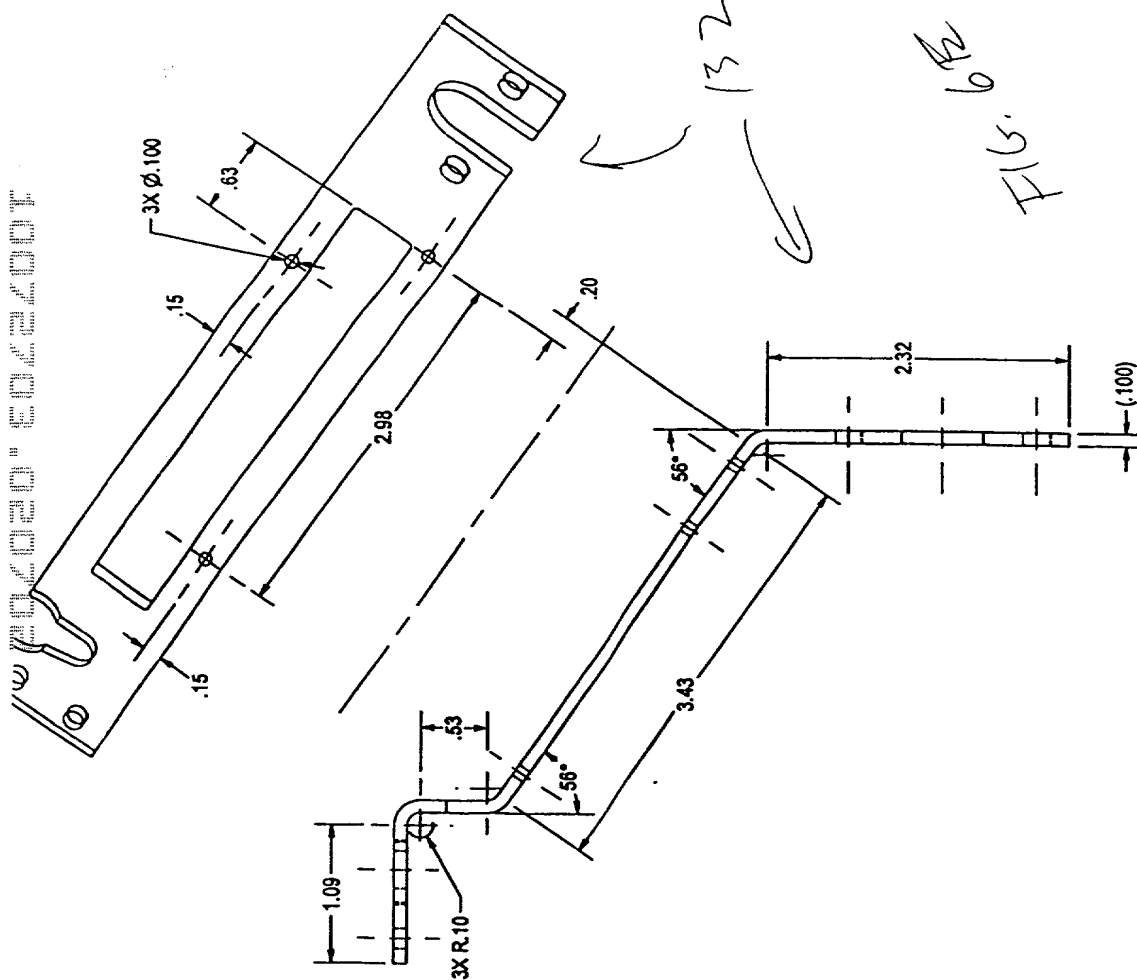
| | | | | |
|-------------------------|---|------------------------------|----------|-----------------|
| REV. | DESCRIPTION | DRWN | DATE | CHKD |
| |  MANUFACTURING: MUSCATINE, IA 52761 CORPORATE OFFICE: OSAULOOKA, IA 52577 MATERIAL: .100 THK ALUMINUM CH: 5052-H32 | | | |
| | | FINISH: SEE NOTES | | |
| | TOLERANCES: .XX ±.01 .XXX ±.002 FRACT: .0032 SURF:  | SCALE: 1=1 | PART NO. | |
| | UNLESS SPECIFIED DIMENSIONS IN INCHES | TITLE: LAMP BRACKET LEFT - C | | LS-3497-1 2K |
| CAD FILE: LS-3497-1.cad | | | | |

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FRACT: 9U32
UNLESS SPECIFIED
DIMENSIONS IN INCHES

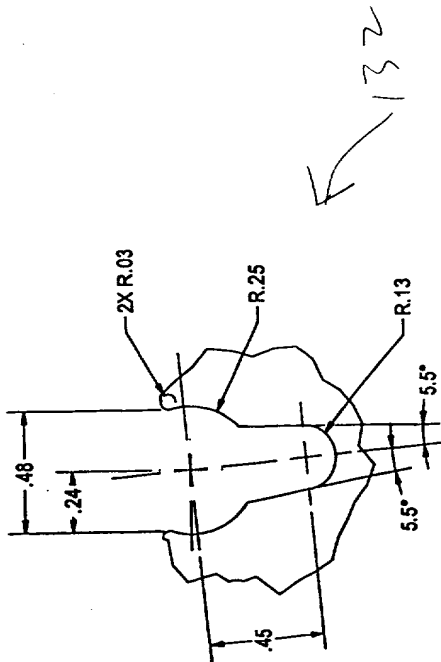
206020" E022/001



NOTE:

1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
2. ALL FILLETS AND RADII .03 UNLESS NOTED OTHERWISE.
3. FINISH: ANODIZE PER MIL SPEC MIL-A-8625F, TYPE II, CLASS 1, CLEAR, LIGHT ETCH.
4. ANGLE TOLERANCE: $\pm 1/2^\circ$
5. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

- 47 -



Detail A
Scale 2:1

Fig. 66

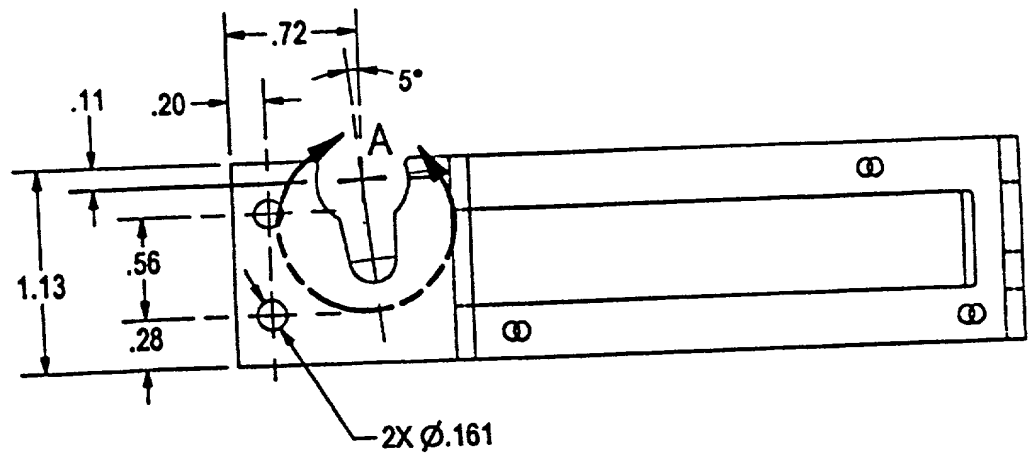




FIG. 6H

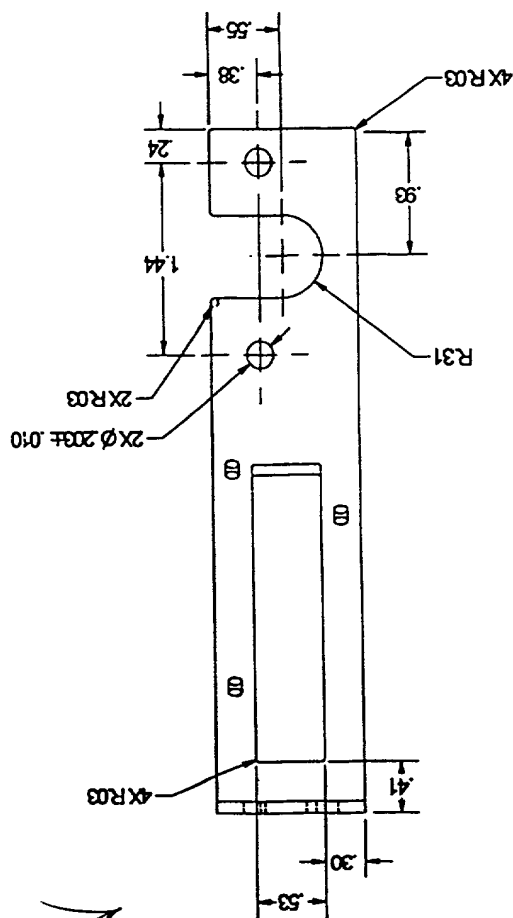
132

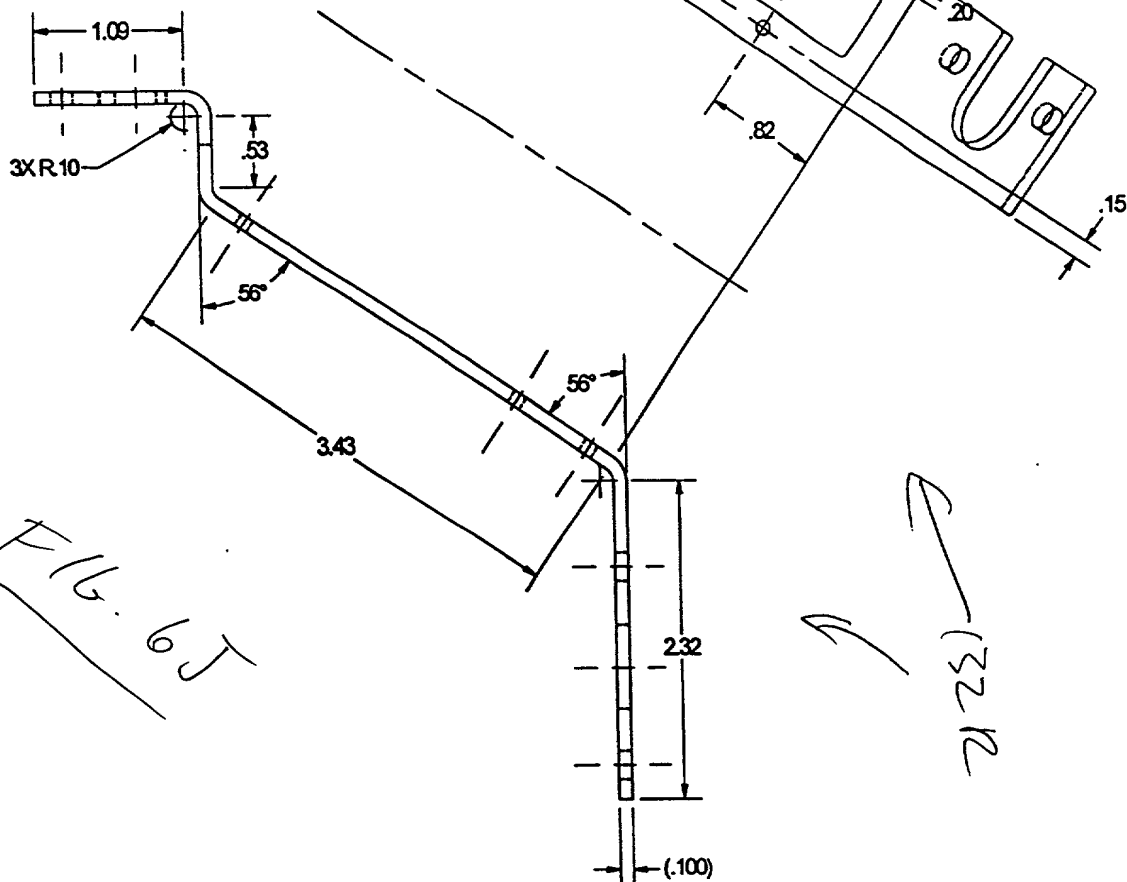
PART NO.
Ls-3498-1

CAO FILE # 16-3108-1-101

| REV | DESCRIPTION | DRAWN | DATE | CHK |
|-----|---|--|------|-----|
| |  <p> TOLERANCES: XX ± .01 XXX ± .005 FRACT: ± .12 UNLESS SPECIFIED DIMENSIONS IN INCHES </p> | <p> MANUFACTURER: INSLATIVE, IN 62281 COMPANY OFFICE: ORLANDO, FL 32817 MATERIAL: 100 THK ALUMINUM 5052-H32 FINISH: SEE NOTES SCALE: 1"=1' PART NO. [C] TITLE: Lamp Bracket Right - 2K LS-3498-1 </p> | | |

| | |
|---|---|
|  | The (structure) and location is indicated in the coordinate list in figure 1 of the Light map and is indicated in the () of the survey on page 1 of the table 1 of the survey and page 1 of the () of the survey. |
| NO. 1000-1000000 | ANS 1715-1000 |


$$\begin{array}{r} 132R \\ \hline 6H \\ \hline 16H \end{array}$$



NOTE

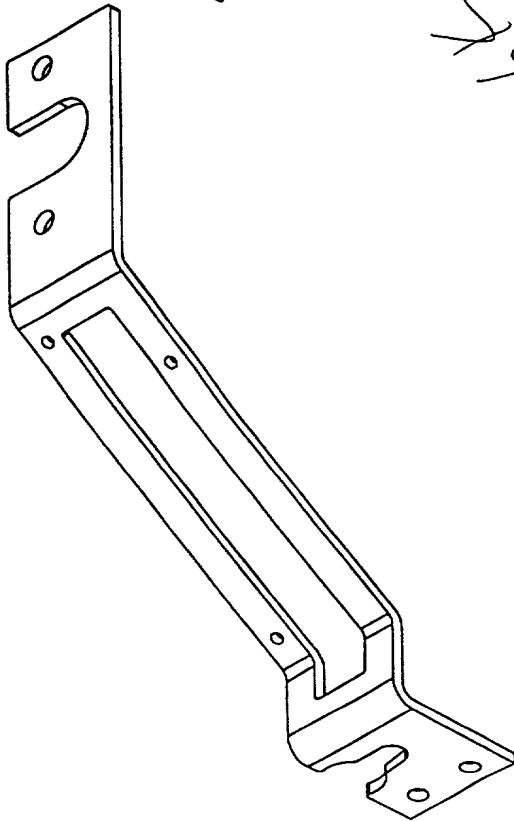
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
2. ALL FILLETS AND RADII .03 UNLESS NOTED OTHERWISE.
3. FINISH ANODIZE PER MIL SPEC MIL-A-8625F, TYPE II, CLASS 1, CLEAR, LIGHT ETCH.
4. ANGLE TOLERANCE: $\pm 1/2^\circ$
5. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

TIN
LIG
IN
MIL

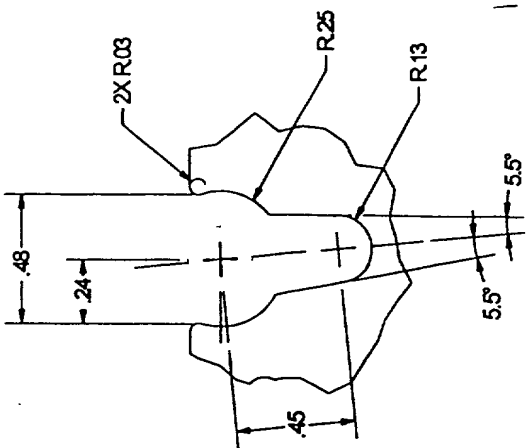
- 51 -

File 6K

132R



20/02/2020 10:22:00



Detail A
Scale 2:1

52

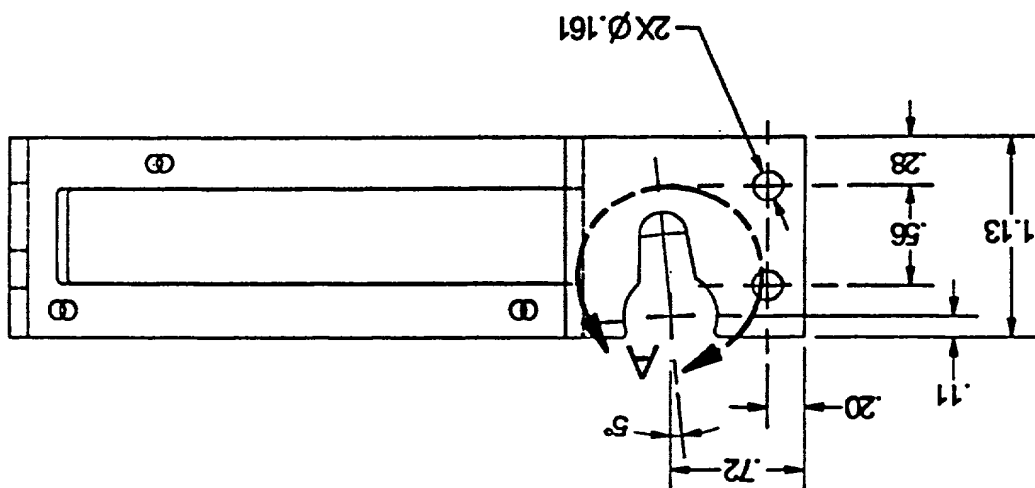
132R →

17/13.90

-53-

2231

FILE 6 M



10072703.020702

20/020" E022001

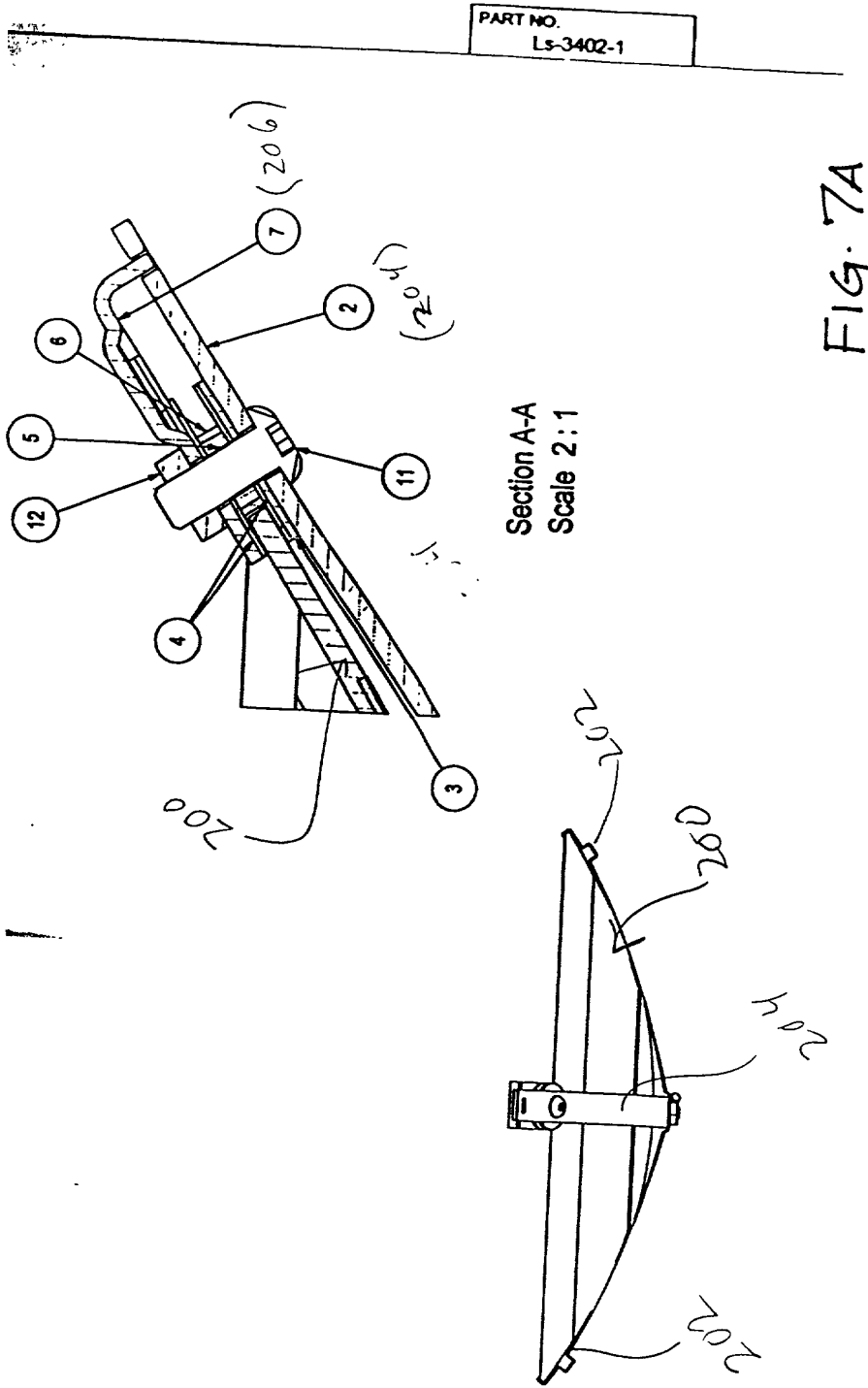
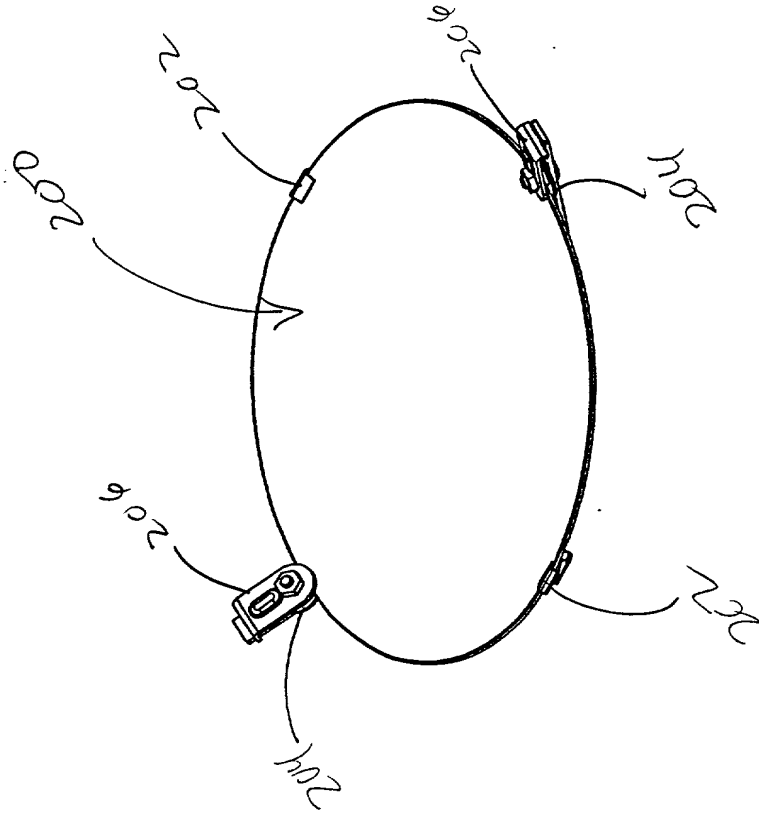


FIG. 7A

| | | | |
|---|-------------|--|--|
| RELEASE | | NAT | |
| REV. | DESCRIPTION | DRWN | |
| MANUFACTURING: MUSCATINE, IA 52761 CORPORATE OFFICE: OSCALOOSA, IA 52377 | | FINISH: NONE | |
| MATERIAL: SEE ABOVE | | TITLE: Paraboloid Assembly | |
| TOLERANCES: XX 4 M XX 4 S PRACT: 4/32 ANGLE: 4° | | UNLESS SPECIFIED DIMENSIONS IN INCHES | |
| THE TECHNICAL INFORMATION PROVIDED ON THIS DRAWING IS THE CONFIDENTIAL PROPERTY OF PUNCH LIGHTING, INC. AND REPRODUCTION OF THE SAME OR THE INFORMATION FOR ANYTHING OTHER THAN THE PURPOSES AUTHORIZED HEREON IS PROHIBITED. WITHOUT THE WRITTEN PERMISSION OF PUNCH LIGHTING, INC. IS PROHIBITED. | | DATE: 1-82 | |
| PART NO. | | LS-3402-1 | |
| CAD FILE # | | LS-3402-1.kim | |

11/11/11 11:11 AM 11/11/11 11:11 AM

| BILL OF MATERIALS PER UNIT | | | |
|----------------------------|-----|-------------|------------------------------------|
| ITEM | QTY | PART NUMBER | DESCRIPTION |
| 1 | 1 | LS-3412-1 | Vertical bracket/teflon assembly |
| 2 | 1 | LS-3460-1 | Paraboloid Horizontal Bracket - 2K |
| 3 | 2 | LS-3464-1 | Steel Washer - 2K |
| 4 | 4 | LS-3466-1 | Teflon Washer - 2K |
| 5 | 2 | LS-3468-1 | Steel Bushing - 2K |
| 6 | 2 | LS-3470-1 | Teflon Bushing - 2K |
| 7 | 2 | LS-3474-1 | Paraboloid Clamp - 2K |
| 8 | 1 | LS-4000-1 | Paraboloid Reflector - 2K |
| 9 | 1 | LS-3472-1 | 8" Ceramic Blanket |
| 10 | 1 | LS-3476-1 | 4" Ceramic Blanket |
| 11 | 2 | Hdw-1019 | Screw 10-24 x 1/2" lg button head |
| 12 | 3 | Hdw-1003 | Locknut 10-24 |
| 13 | 1 | Hdw-1048 | Screw 10-24 x 1/4" lg button head |
| 14 | 1 | Hdw-1086-1 | Screw 6-32 x 3/8" lg button head |
| 15 | 1 | LS-3478-1 | Retaining Cable |
| 16 | 1 | Hdw-1089-1 | Locknut 6-32 |



-55-

Fig 1B

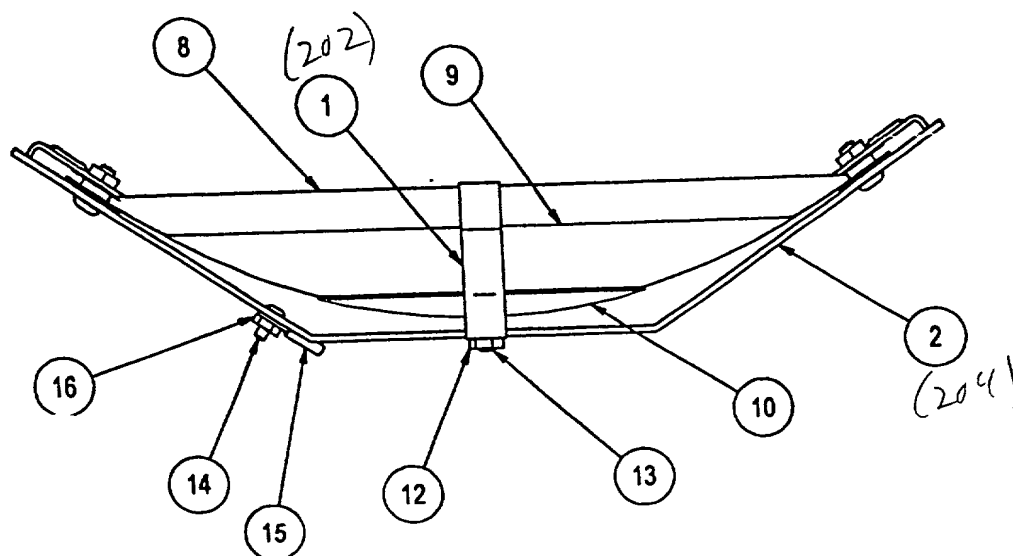


FIG. 7C

NOTE:

1. NO FINGER PRINTS OR FOREIGN MATTER ON MIRROR. USE WHITE COTTON GLOVES WHEN ASSEMBLING.
2. DO NOT ATTEMPT TO CLEAN MIRROR.

10072703.020702

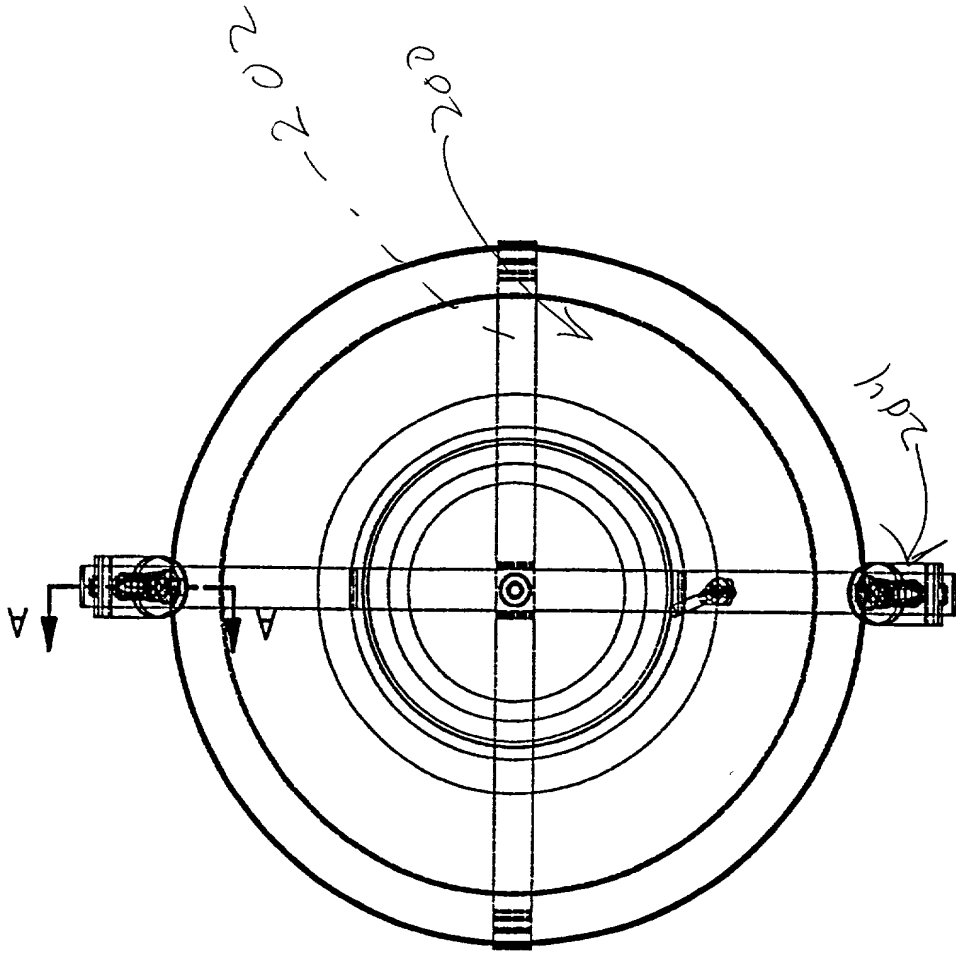
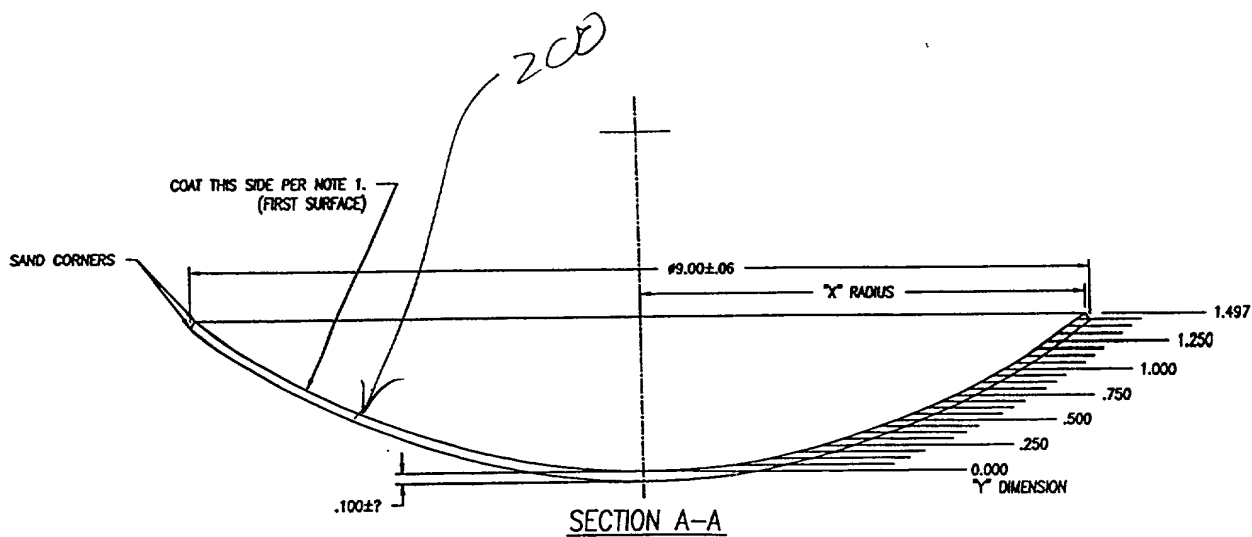


FIG. 7D

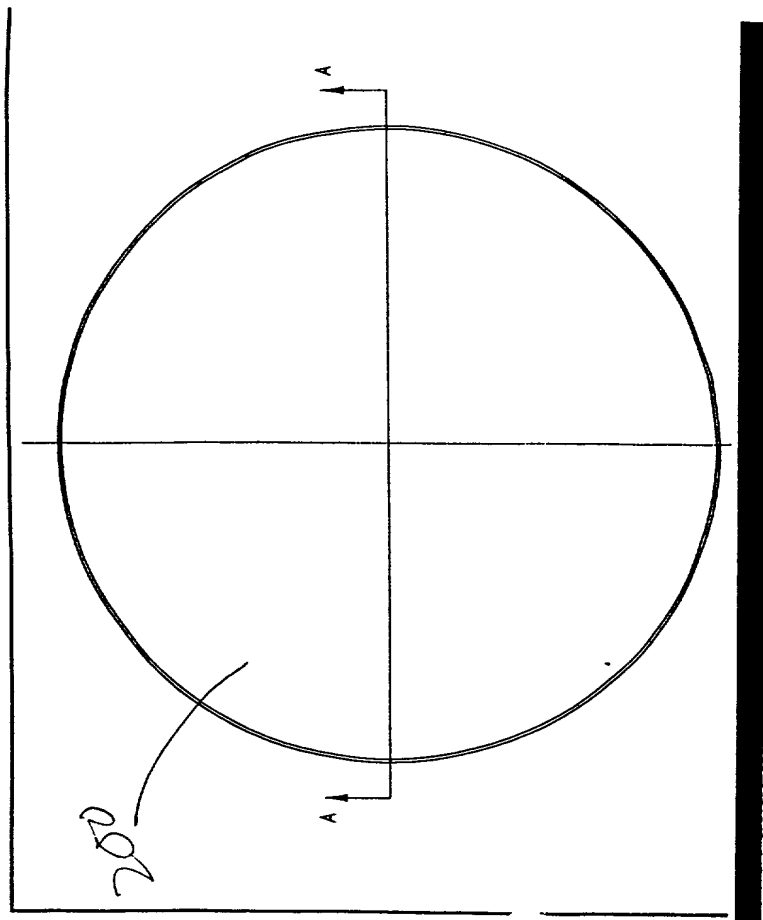


NOTE:

1. COATING: DICHROIC COAT COATING WITH A REFLECTANCE OF $>94\%$ FROM 430-680 NM.
2. CURVATURE IS A $3-5/16"$ FOCAL LENGTH PARABOLA.

FIG. 7E

FIG. 7 F



10072703-020702

FIG. 76

| "X" RAD | "Y" DIM |
|---------|---------|
| .911 | .063 |
| 1.287 | .125 |
| 1.576 | .188 |
| 1.820 | .250 |
| 2.035 | .313 |
| 2.229 | .375 |
| 2.408 | .438 |
| 2.574 | .500 |
| 2.730 | .563 |
| 2.878 | .625 |
| 3.018 | .688 |
| 3.152 | .750 |
| 3.281 | .813 |
| 3.405 | .875 |
| 3.524 | .938 |
| 3.640 | 1.000 |
| 3.752 | 1.063 |
| 3.861 | 1.125 |
| 3.967 | 1.188 |
| 4.070 | 1.250 |
| 4.170 | 1.313 |
| 4.268 | 1.375 |
| 4.364 | 1.438 |
| 4.453 | 1.497 |

PART NO.
LS-4000-1

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3RD ANGLE PROJECTION
ANSI Y14.5-1994

| | | |
|------|-------------|------|
| --- | RELEASE | MLK |
| REV. | DESCRIPTION | DRWN |

0000
MILWAUKEE
477

TOLERANCES:
X .01
Y .005
FRACT: $\pm 1/32$
ANGLES: $\pm 1^\circ$

UNLESS SPECIFIED
DIMENSIONS IN INCHES

MANUFACTURING: MUSCATINE, IA 52761
CORPORATE OFFICE: OSKALOOSA, IA 52577

MATERIAL: GLASS

FINISH: SEE ABOVE

TITLE: PARABLOID 3-5/16" C
COATED FIRST SURFACE

SCALE: 1=1

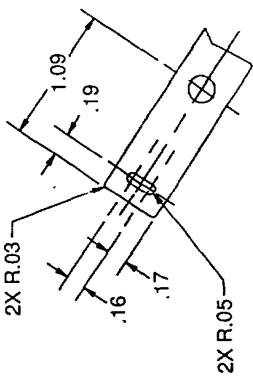
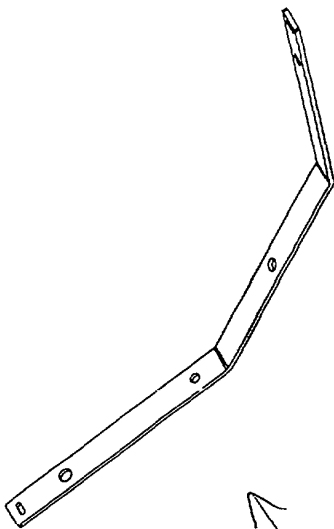
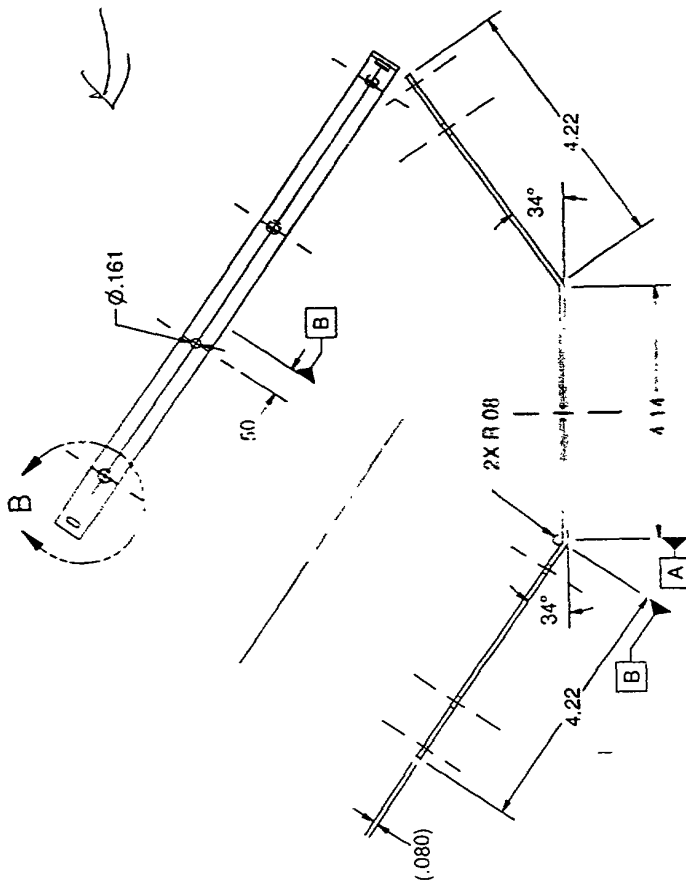
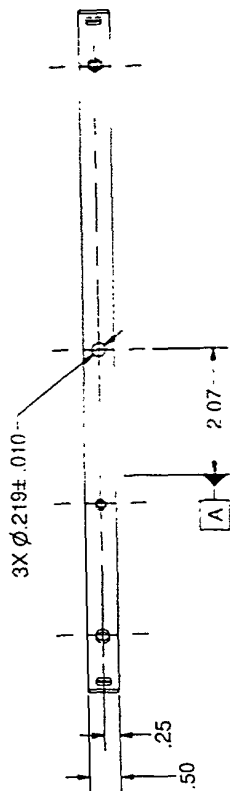
PART NO.

LS-4000-1

END FILE / LS-4000-1

202020" E022000T

PART NO. LS-3460-1



2X Detail B
Scale 1:1

FLG-TH

- NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
 2. FINISH: ANODIZE PER MIL SPEC MIL-A-8625F, TYPE II, CLASS 1, CLEAR, LIGHT ETCH.
 3. ANGLE TOLERANCE: ± 1/2°
 4. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT

| REV. | DESCRIPTION | DRWN | DATE | C |
|------|-------------------------------------|------|------|---|
| | MUSCO Lighting | | | |
| | MANUFACTURING MUSCATINE IA 52761 | | | |
| | CORPORATE OFFICE OSKALOOSA IA 52577 | | | |
| | MATERIAL 080 THK ALUMINUM | | | |
| | FINISH 5052 H32 | | | |
| | SEE NOTES | | | |
| | TOLERANCES | | | |
| | XX ± .01 | | | |
| | XXX ± .005 | | | |
| | FRACTION 1/16 | | | |
| | ANGLES 1/2° | | | |
| | UNLESS SPECIFIED | | | |
| | DIMENSIONS IN INCH | | | |
| | SHOWN PRELIMINARY | | | |
| | REV 1118 1198 | | | |

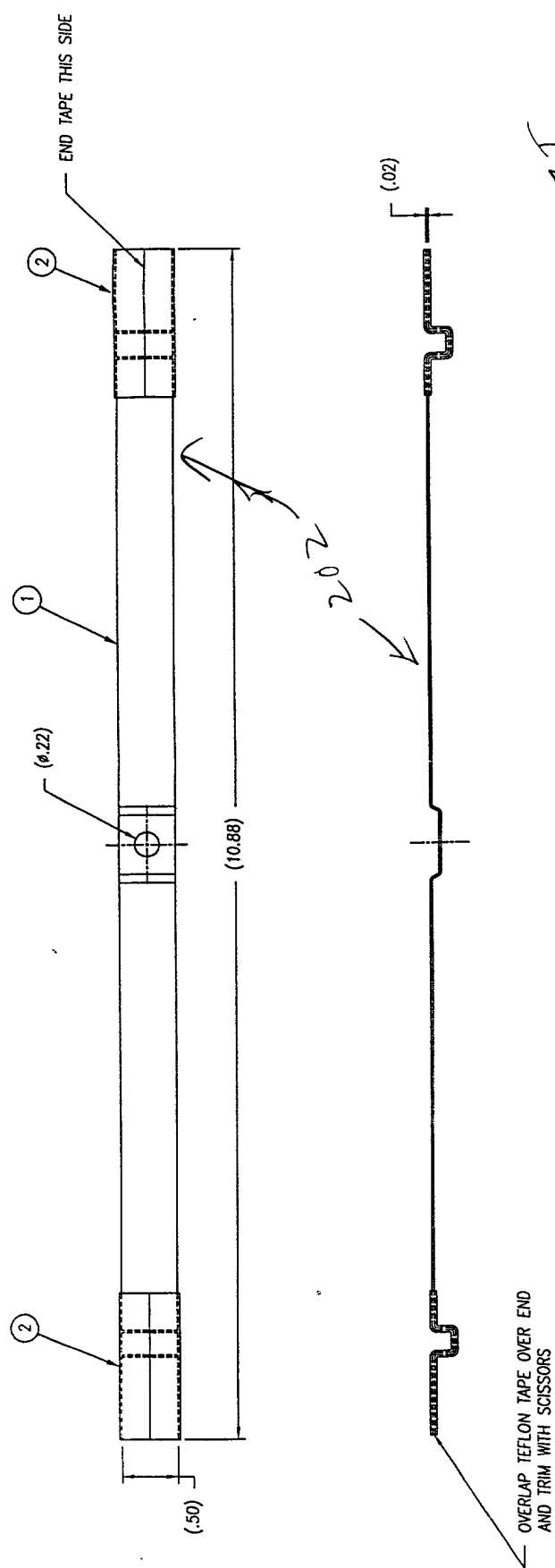
| | | |
|-------|-------|-----------|
| APPVU | SCALE | PART NO |
| | 1=2 | LS-3460-1 |

CAD FILE # LS3460-1.dwg

PART NO.
LS-3412-1

BILL OF MATERIALS PER UNIT

| ITEM | QTY | DESCRIPTION | PART |
|------|-----|-----------------------------|-----------|
| 1 | 1 | PARABOLOID VERTICAL BRACKET | LS-3462-1 |
| 2 | 6' | TEFLON TAPE (2 X 3') | LS-3463-1 |



- 29 -

FIG. 7I

NOTE:
1. TOTAL QUANTITY OF TAPE (ITEM 2) SHOWN IN THE BILL OF MATERIAL IS USED 3" ON EACH END.

| | |
|---|--------------|
| REV. | RELEASE |
| DESCRIPTION | |
| MANUFACTURING: MUSCATINE, IA 52761 CORPORATE OFFICE: OSKALOOSA, IA 52577 | |
| MATERIAL: SEE ABOVE | |
| TOLERANCES: | FINISH: NONE |
| .XX ±.01 | SCALE: 1=1 |
| .XXX ±.005 | |
| FRACT: ±1/32 | |
| ANGLES: ±1° | |
| UNLESS SPECIFIED | |
| DIMENSIONS IN INCHES | |

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ANSI Y14.5-1984

TITLE: VERTICAL BRACKET (B)
W/TEFLON ASSEMBLY
LS-3412-1

Q10 FILE FLS-3412-1

PART NO.
LS-3463-1

- ६७ -

1. NAME: TEFLON THREAD SEALANT TAPE
2. MATERIAL: 99% PTFE TEFLON (FOR STRONG CHEMICAL RESISTANCE)
3. TEMPERATURE RANGE: -400° TO +500° F.
4. GRADE: MILITARY
5. WIDTH: 1.50
6. THICKNESS: (.003)
7. ELONGATION: 50% MINIMUM
8. SPECIFIC GRAVITY: 0.90 G/CC
9. COLOR: WHITE
10. SPECIFICATIONS: MEETS MIL SPEC. T-27730A

Feb. 75

NOTE:
1. REFERENCE McMASTER-CARR PART NUMBER 6802K66.

[illegible]

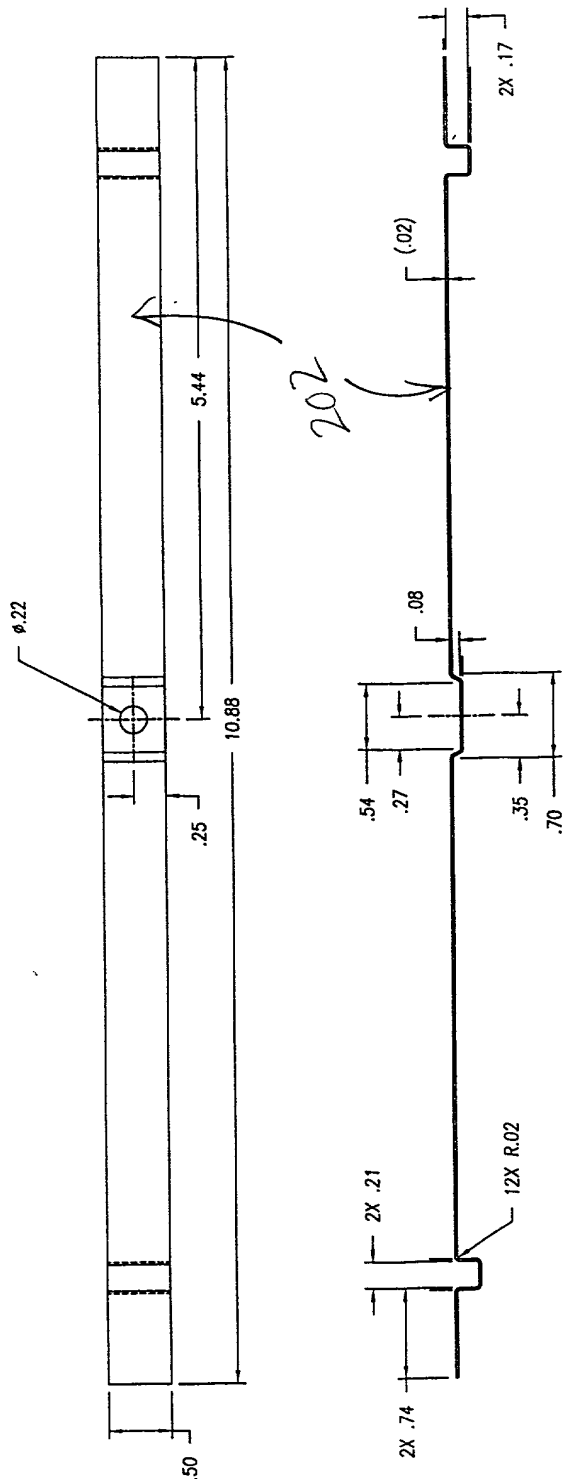
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PART NO.

LS-3463-1

1-398-51 FILE # 15-3463-1

PART NO.
LS-3462-1



NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
2. FINISH: ANODIZE PER MIL SPEC MIL-A-8625F, TYPE II CLASS 1, CLEAR, LIGHT ETCH.
3. PART TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

Alternative

FILE 7K

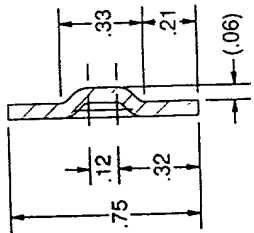
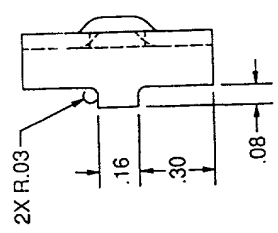
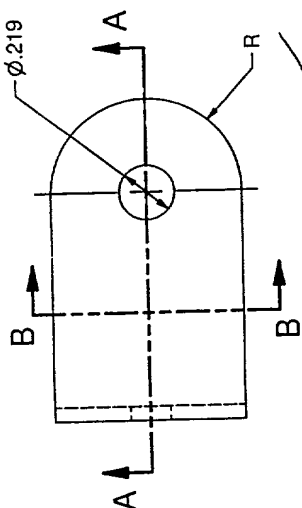
| | | |
|--|---------|-------------|
| REV. | RELEASE | DESCRIPTION |
| | | |
| <p>MANUFACTURING: MUSCATINE, IA 52761 CORPORATE OFFICE: OSKALOOSA, IA 52577</p> | | |
| <p>MATERIAL: PREANODIZED ALUMINUM REFLECTOR SHEET</p> | | |
| <p>FINISH: SEE NOTES</p> | | |
| <p>TOLERANCES: XX $\pm .01$ XXX $\pm .005$</p> | | |
| <p>FRACT: $\pm 1/32$ ANGLES: $\pm 1^\circ$ UNLESS STATED OTHERWISE IN INCHES</p> | | |
| <p>SCALE: 1"=1"</p> | | |
| <p>PART NO. LS-3462-1</p> | | |

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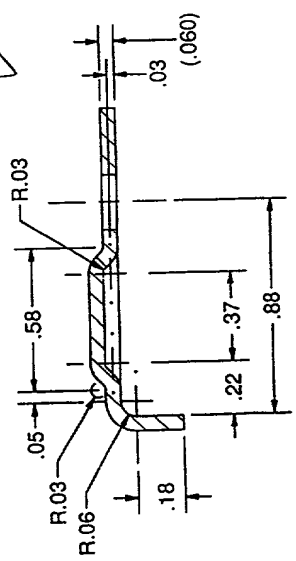
CAD FILE # LS-3462-1

PART NO. LS-3474-1

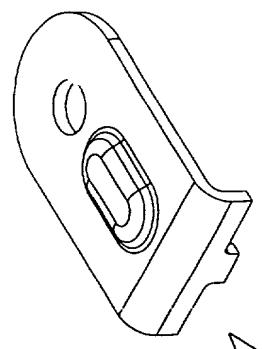
204220" E022200T



Section B-B



Section A-A



-59-

FIG. 7L

- NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
 2. FINISH: ANODIZE PER MIL SPEC MIL-A-8625F, TYPE II, CLASS 1, CLEAR, LIGHT ETCH.
 3. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

| REV | DESCRIPTION | DRWN | DATE | CH |
|-----|-------------------------------------|------|------|----|
| | MUSCOGAL | | | |
| | MANUFACTURING MUSCATINE IA 52761 | | | |
| | CORPORATE OFFICE OSKALOOSA IA 52577 | | | |
| | MATERIAL .060 THK ALUMINUM | | | |
| | 5052-H32 | | | |
| | FINISH SEE NOTES | | | |
| | TOLERANCES | | | |
| | XX ± .01 | | | |
| | XXX ± .005 | | | |
| | FRACT ±1/32 | | | |
| | ANGLES 1° | | | |
| | UNLESS SPECIFIED | | | |
| | DIMENSIONS IN INCHES | | | |
| | TITLE Parabolid Clamp - 2K | | | |
| | SCALE 2=1 | | | |
| | PART NO | | | |
| | LS-3474-1 | | | |
| | CAD FILE # LS-3474-1.W | | | |

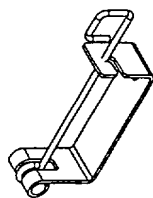
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2020-02-20

PART NO.
LS-3408-1

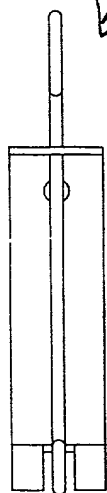
| BILL OF MATERIALS PER UNIT | | |
|----------------------------|-----|--|
| ITEM | QTY | DESCRIPTION |
| 1 | 1 | LS-3450-1 Parabold Spring Clamp - 2K |
| 2 | 1 | LS-3452-1 Parabold Spring Clamp Wire - 2K |



Scale: 1:1

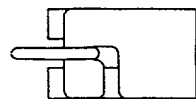
- 99 -

FIG. 7M



2

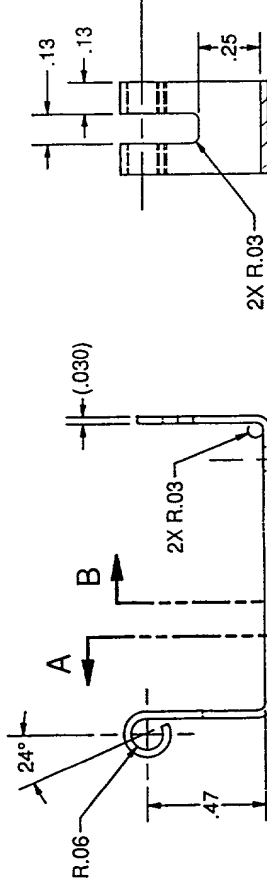
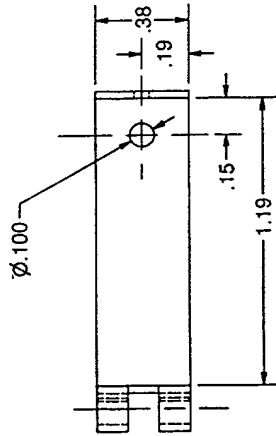
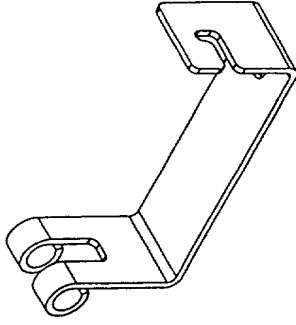
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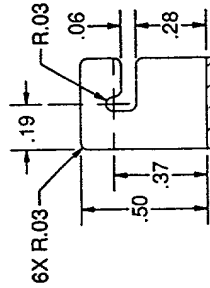
| | | | | |
|--|--|------|------|----|
| REV. | DESCRIPTION | DRWN | DATE | CP |
| 1 | MANUFACTURING HUSCATINE, IA 52761 CORPORATE OFFICE OSKAHOOSA IA 52577 | | | |
| MATERIAL: SEE ABOVE | | | | |
| FINISH: NONE | | | | |
| TITLE: Parabold Spring Clamp Assembly - 2K | | | | |
| PART NO. LS-3408-1 | | | | |
| UNLESS SPECIFIED DIMENSIONS IN INCHES | | | | |
| TOLERANCES XX ± .01 XXX ± .005 | | | | |
| FRACT. 1/32 ANGLES: 2° | | | | |
| 3RD ANGLE PROJECTION ANSI Y14.5-1993 | | | | |

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CAD FILE # LS-3408-1.dwg



Section A-A



Section B-B

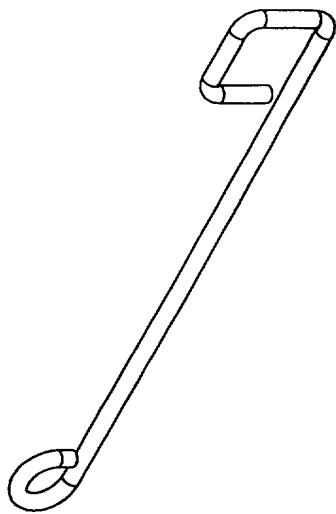
- NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
 2. FINISH: ANODIZE PER MIL SPEC MIL-A-8625F, TYPE II, CLASS 1, CLEAR, LIGHT ETCH.
 3. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

| REV. | DESCRIPTION | DRWN | DATE | C+ |
|------|--|------|------|----|
| | MANUFACTURING HUSCATINE, IA 52761 CORPORATE OFFICE OSHKOSH, IA 52577 | | | |
| | MATERIAL: 030 THK ALUMINUM | | | |
| | FINISH 5052-H32 | | | |
| | SEE NOTES | | | |
| | TOLERANCES .XX ±.01 .XXX ±.005 | | | |
| | FRACT 1/32 | | | |
| | ANGLES: 1° | | | |
| | UNLESS SPECIFIED DIMENSIONS IN INCHES | | | |
| | 3RD ANGLE PROJECTION ANSI Y14.5-1994 | | | |
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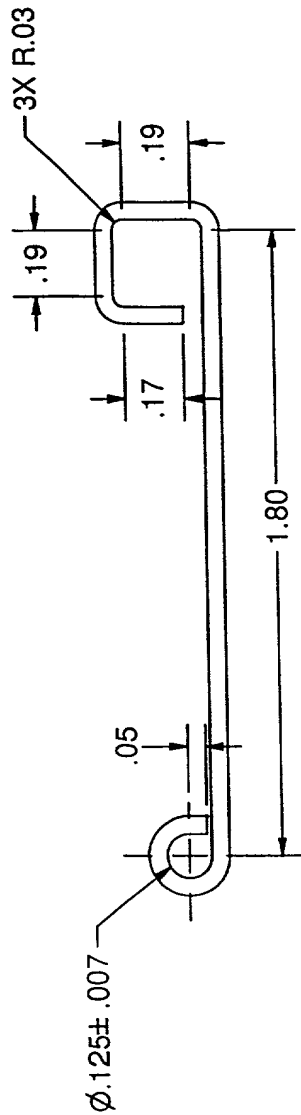
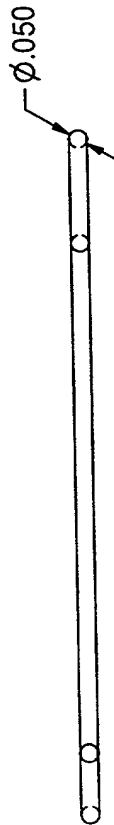
APPVD
SCALE 2=1
PART NO.
LS-3450-1
CAD FILE # LS-3450-1.dwg

- 29 -

FIG. 7N



- 89 -



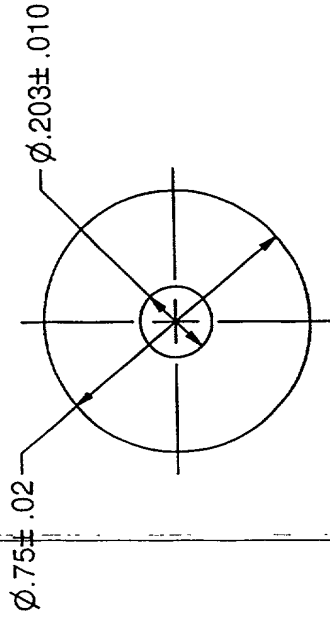
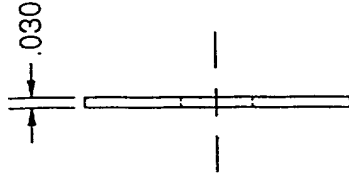
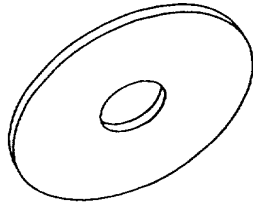
F16-17-0

2. PASSIVATE PER ASTM A380.

[illegible]

20/020" E02200T

PART NO.
LS-3464-1



- NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
 2. PASSIVATE PER ASTM A380.
 3. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

F16.7P

| | | | | | | | | | |
|------|--|-------------|--|------|--|------|--|---|--|
| REV. | | DESCRIPTION | | DRWN | | DATE | | MANUFACTURING: MUSCATINE, IA 52761 CORPORATE OFFICE: OSKALOOSA, IA 52577 | |
| | | | | | | | | MATERIAL: STAINLESS STEEL | |
| | | | | | | | | FINISH: SEE NOTES | |
| | | | | | | | | SCALE 2=1 | |
| | | | | | | | | PART NO. A | |
| | | | | | | | | TITLE: Steel Washer - 2K | |
| | | | | | | | | CAD FILE # LS-3464-1.dwg | |

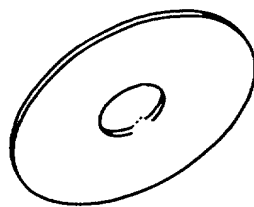
| | | | |
|-----------------------|-------|----------------|--|
| TOLERANCES: | | MUSCO Lighting | |
| .XX | ±.01 | | |
| .XXX | ±.005 | | |
| FRACT: $\pm 1/32$ | | | |
| ANGLES: $\pm 1^\circ$ | | | |
| UNLESS SPECIFIED | | | |
| DIMENSIONS IN INCHES | | | |

| | | | |
|------|-----|----------------------|-----------------|
| APVD | ECN | 3RD ANGLE PROJECTION | ANSI Y14.5-1994 |
| | | | |

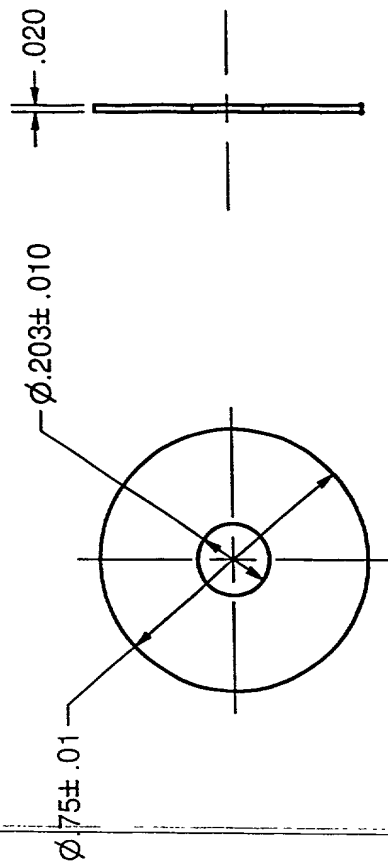
| | | | |
|------|------|------|------|
| CHKO | DATE | DRWN | CHKO |
| | | | |

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PART NO.
LS-3466-1



- 02 -

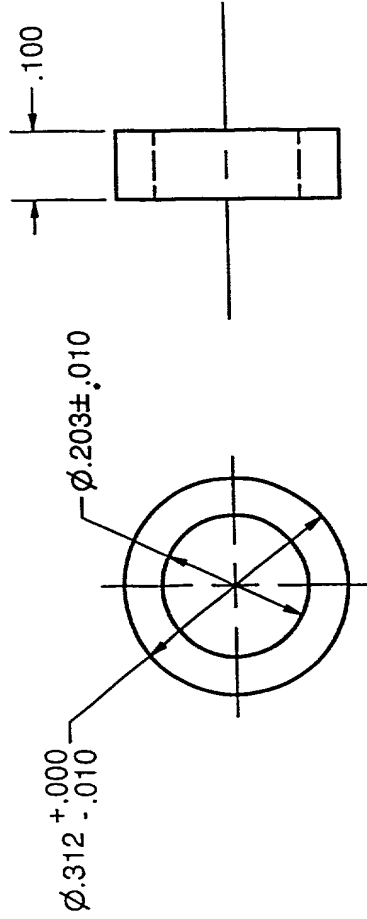
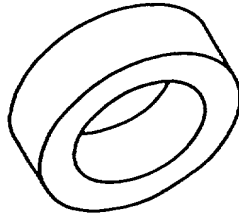


F16-70

NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.

[illegible]

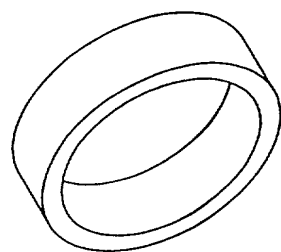
PART NO.
LS-3468-1



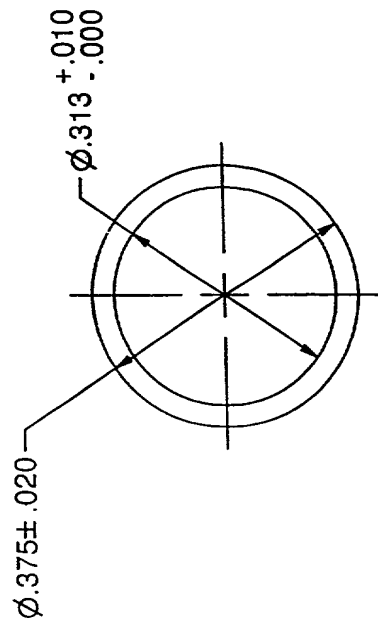
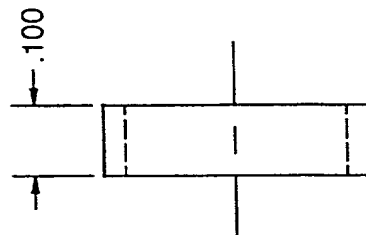
- NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
 2. PASSIVATE PER ASTM A380.
 3. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

| | | | | | | | | | |
|------------------|------------------------------------|------|------|------|--|-----|---|--|--|
| DRWN. | MANUFACTURING: MUSCATINE, IA 52761 | | | | CORPORATE OFFICE: OSKALOOSA, IA. 52577 | | | | |
| DATE: | | | | | | | | | |
| CHKD | MATERIAL: STAINLESS STEEL | | | | | | | | |
| APPVD: | FINISH: SEE NOTES | | | | | | | | |
| SCALE: | 4=1 | | | | | | | | |
| PART NO. | TITLE: Steel Bushing - 2K | | | | A | | | | |
| TOLERANCES: | | | | | | | | | |
| .XX ±.01 | | | | | FRACT: ±1/32 | | | | |
| .XXX ±.005 | | | | | ANGLES: ±1° | | | | |
| UNLESS SPECIFIED | | | | | DIMENSIONS IN INCHES | | | | |
| ANSI Y14.5-1994 | | | | | | | | | |
| REV. | DESCRIPTION | DRWN | DATE | CHKD | APVD | ECN | THE TECHNICAL INFORMATION PROVIDED ON THIS DRAWING IS THE CONFIDENTIAL PROPERTY OF MUSCO LIGHTING, INC. NO REPRODUCTION OF THIS DRAWING OR USE OF THIS INFORMATION FOR ANYTHING OTHER THAN THE INTENDED PURPOSE AS TO THIS PROJECT, WITHOUT THE WRITTEN PERMISSION OF MUSCO LIGHTING, INC. IS PROHIBITED. | | |

PART NO.
LS-3470-1



- 72 -



F 16. 7.5

NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.

[illegible]

PART NO.
HDW-1019

MATERIAL SPECIFICATIONS:

1. NAME: SOCKET HEAD CAP SCREW-BUTTON HEAD
2. MATERIAL: 18-8 STAINLESS STEEL
3. SIZE: #10-24 UNC-2A X .50" LONG
4. FINISH: PASSIVATE PER ASTM A380
EMPIGARD PER MUSCO MS-1005

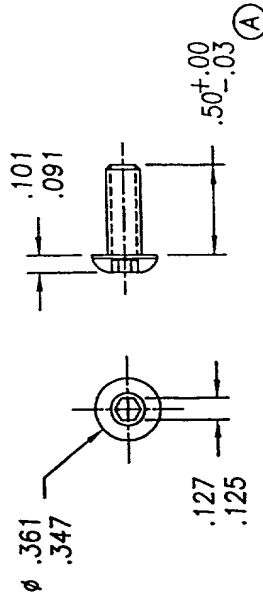


FIG. 7-7

NOTE:

1. FASTENER SHALL COMPLY WITH INDUSTRIAL FASTENER INSTITUTE STANDARDS.
2. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT. (A)

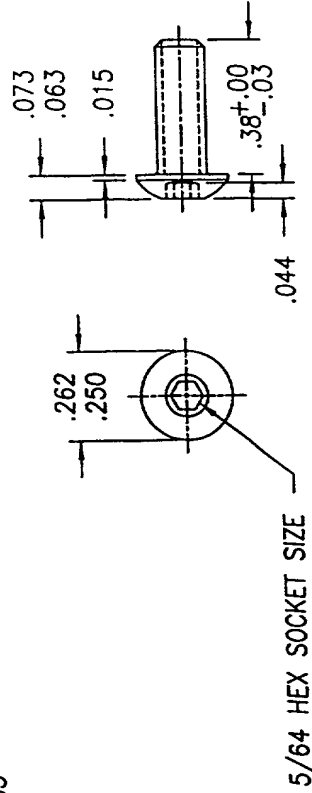
| | | |
|---|--|----------|
| MANUFACTURING: MUSCATINE, IA 52761 CORPORATE OFFICE: OSKALOOSA, IA 52577 | | DF |
| MATERIAL: SEE ABOVE | | DI |
| FINISH: NONE | | CI |
| TOLERANCES: .XX $\pm .01$.XXX $\pm .005$ | | AI |
| FRACT: $\pm 1/32$ ANGLES: $\pm 1^\circ$ | | SL |
| UNLESS SPECIFIED DIMENSIONS IN INCHES | | |
| TITLE: CAP SCREW SOCKET #10-24 X .50" BTN HD | | PART NO. |
| ANSI Y14.5-1994 | | HDW-1019 |

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PART NO.
HDW-1086-1

MATERIAL SPECIFICATIONS

1. NAME: BUTTON HEAD CAP SCREW
2. MATERIAL: 18-8 STAINLESS STEEL
3. SIZE: #6-32 UNC-2A X .375" LONG
4. FINISH: PASSIVATE PER ASTM A380
EMPIGARD PER MUSCO MS-1005

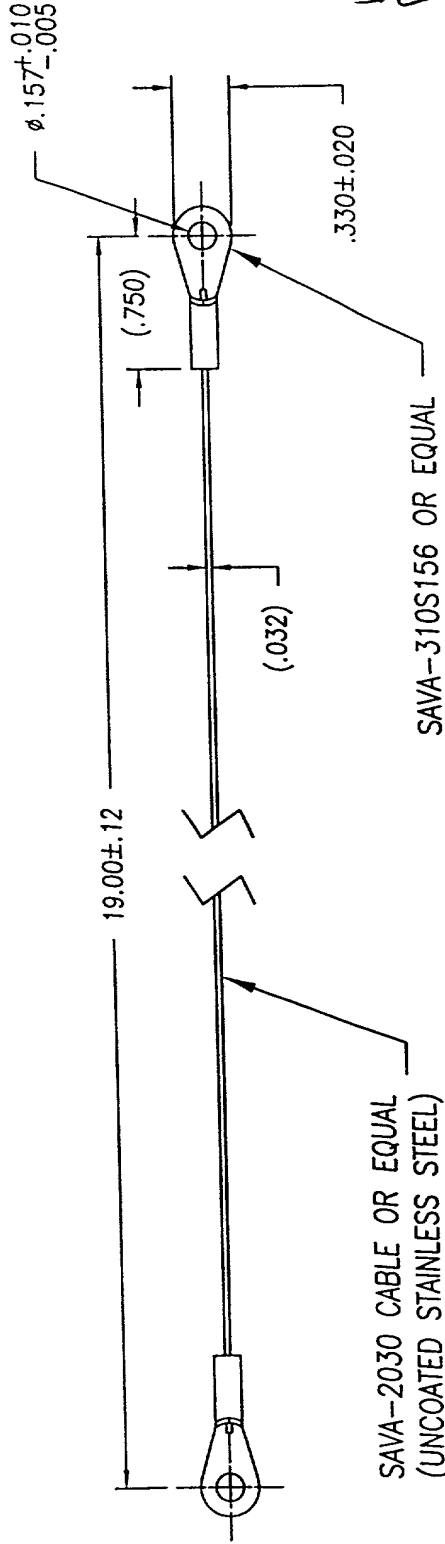


NOTE:
1. FASTENER SHALL COMPLY WITH INDUSTRIAL FASTENER INSTITUTE STANDARDS.
2. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

| | | | |
|--|--|---|--|
| MANUFACTURING: MUSCATINE, IA 52761 CORPORATE OFFICE: OSKALOOSA, IA 52577 | | PART NO. HDW-1086-1 | |
| MATERIAL: SEE NOTE | | TITLE: 6-32 X 3/8 BUTTON HEAD CAP SCREW | |
| FINISH: SEE NOTE | | PART NO. HDW-1086-1 | |
| TOLERANCES: XX ±.01 .XXX ±.005 | | FRACT: ±1/32 ANGLES: ±1° | |
| UNLESS SPECIFIED DIMENSIONS IN INCHES | | ANSI Y14.5-1984 | |
| The fastener manufacturer reserves the right to use drawings as the basis for manufacturing and reproduction of this drawing or use of this information for any other purpose is prohibited. | | MUSCO Lighting, Inc. is prohibited. | |
| REV. 1 | | 380 ANGLE PROJECTION | |


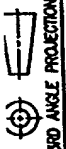
20/020" ED2200T

PART NO.
LS-3478-1



NOTE:

1. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

| | | | |
|---|--|---|--|
|  | | MANUFACTURING: MUSCATINE, IA 52761 CORPORATE OFFICE: OSKALOOSA, IA 52577 | |
| TOLERANCES: XX ±.01 XX ±.005 | | MATERIAL: SEE ABOVE | |
| FRACT: ±1/32 ANGLES: ±1° | | FINISH: | |
| UNLESS SPECIFIED DIMENSIONS IN INCHES | | APPVD: SCALE: 1=1 | |
|  ANSI Y14.5-1994 | | PART NO. LS-3478-1 | |
| The technical information provided on this drawing is the confidential property of Musco Lighting Inc. and reproduction of this drawing or use of this information for anything other than its intended purpose or to this project, without the written permission of Musco Lighting, Inc. is prohibited. | | TITLE: RETAINING CABLE | |

CAD FILE # LS-3478-1

PART NO.
HDW-1089-1

MATERIAL SPECIFICATIONS:

1. NAME: LOCKNUT, TOPLOCK DEFORMED THREAD
2. MATERIAL: 18-8 STAINLESS STEEL
3. SIZE: #6-32
4. FINISH: PASSIVATE PER ASTM A380.

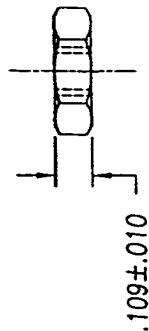
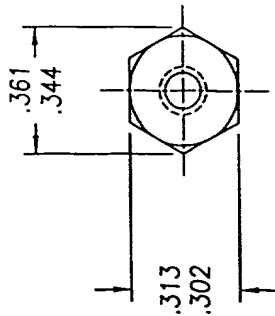

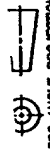


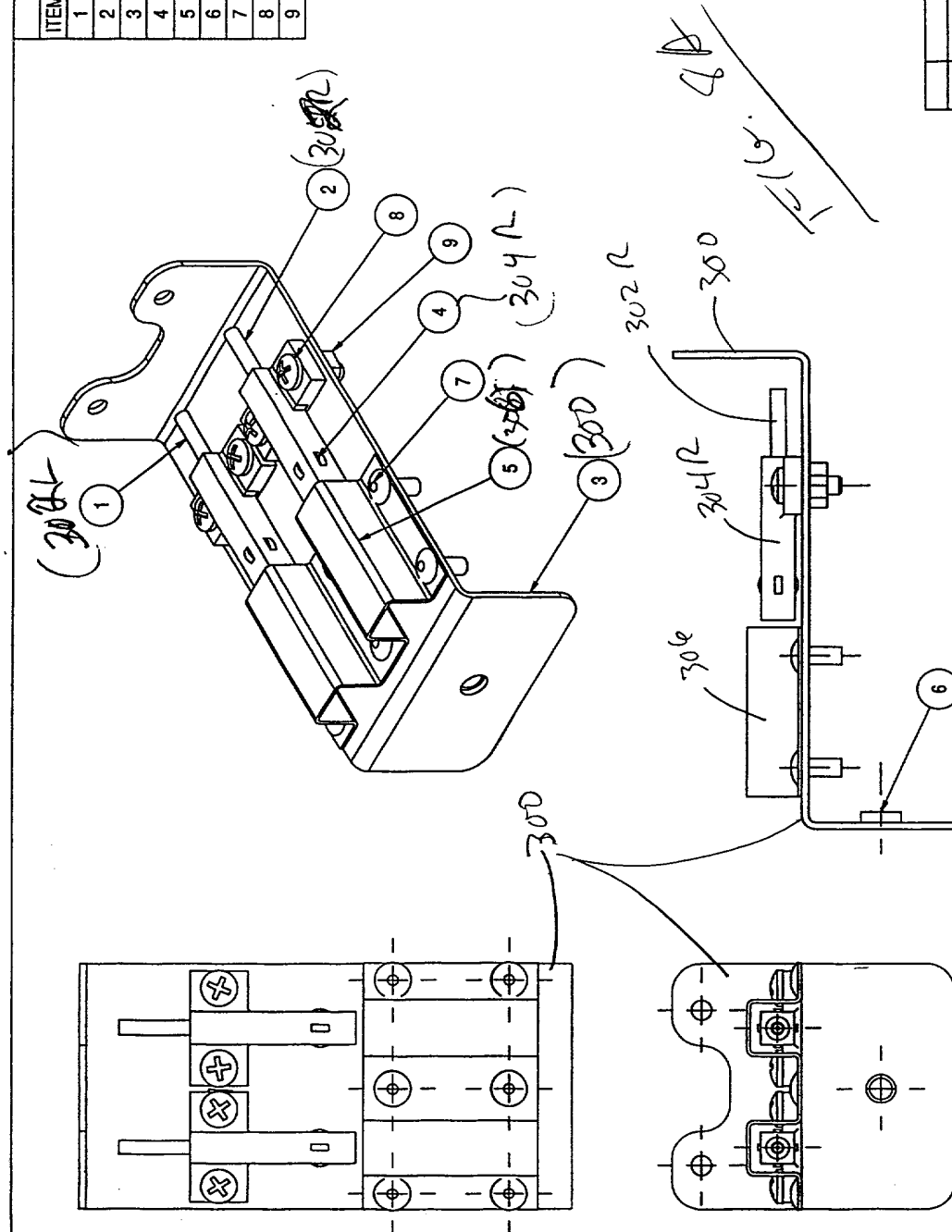
FIG. 7W

NOTE:


1. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

| | | | | |
|--|--|---|--|----------------------|
|  | | MANUFACTURING: MUSCATINE, IA 52761 | | DI |
| | | CORPORATE OFFICE: OSKALOOSA, IA. 52577 | | D. |
|  | | MATERIAL: SEE ABOVE | | C |
| | | FINISH: SEE ABOVE | | A |
| <p>ALL INFORMATION IS FOR INFORMATION ONLY AND IS NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF MUSCO LIGHTING, INC. IS PROHIBITED.</p> | | TITLE: LOCKNUT, TOPLOCK DEFORMED THREAD - #6-32 | | SCALE: 2=1 |
| | | PART NO. | | HDW-1089-1 |
| <p>UNLESS SPECIFIED DIMENSIONS IN INCHES</p> | | <p>FRAGT: ±1/32</p> <p>ANGLES: ±1°</p> | | CU FILE # HDW-1089-1 |

| BILL OF MATERIALS PER UNIT | | | |
|----------------------------|-----|--------------|-----------------------------------|
| ITEM | QTY | PART NUMBER | DESCRIPTION |
| 1 | 1 | LS-1661bk-11 | Wire Assembly Black Pin/Strip 11" |
| 2 | 1 | LS-1661w-11 | Wire Assembly White Pin/Strip 11" |
| 3 | 1 | LS-3490-1 | Connector Bracket - 2K |
| 4 | 2 | LS-3420-1 | CONNECTOR HOUSING |
| 5 | 1 | LS-3492-1 | Connector Guide - 2K |
| 6 | 1 | LS-255 | Pern nut 10-24 |
| 7 | 6 | Hdw-1052 | Pop rivet .532" dia. |
| 8 | 4 | Hdw-1022 | Screw 6-32 x 1/2 pan head |
| 9 | 4 | Hdw-1015 | Locknut 8-32 |



1. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.
2. TORQUE ITEM 9 TO ?? INCH POUNDS.

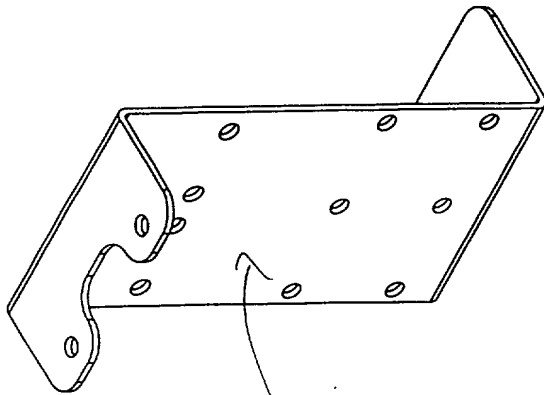
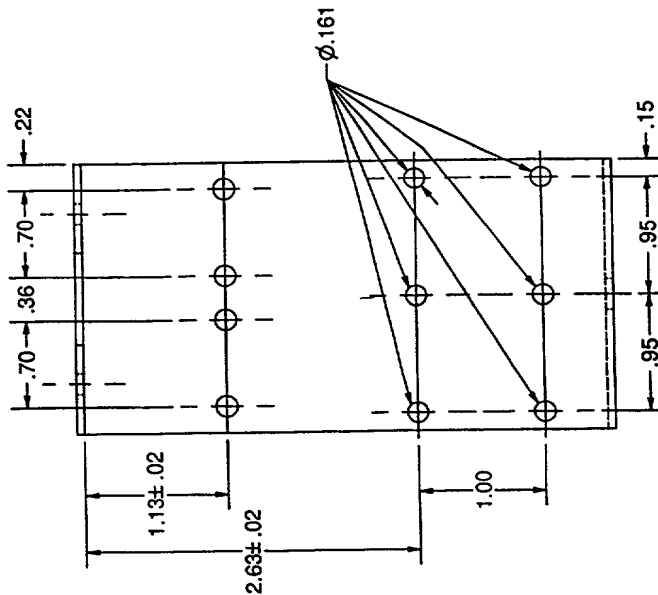
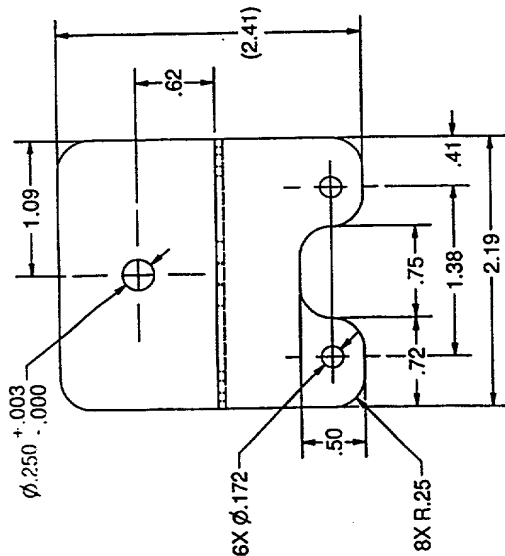
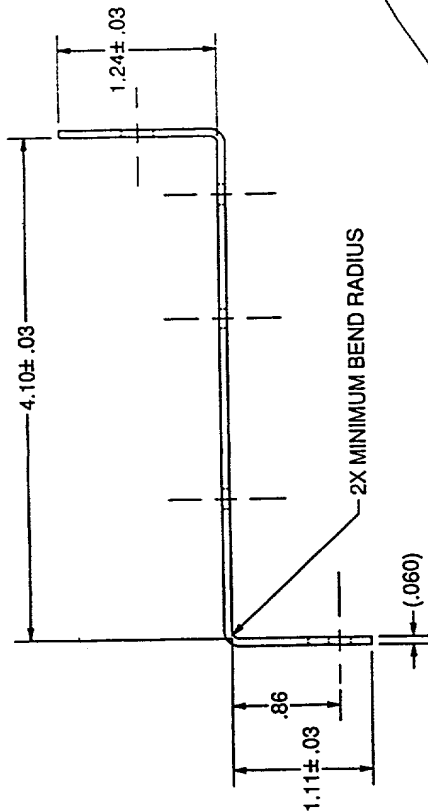
| | | | | | |
|--|-------------|---|--|------|-----|
| REV. | DESCRIPTION |  | DRWN | DATE | CHK |
| | | | MANUFACTURING: MUSCATINE, IA 52761 CORPORATE OFFICE: OSKALOOSA, IA 52377 MATERIAL: SEE ABOVE | | |
| TOLERANCES: | | | FINISH: | NONE | |
| .XX ±.01 | | | | | |
| .XX ±.005 | | | | | |
| FRACT: 1/32 | | | | | |
| ANGLES: 30° | | | | | |
| UNLESS SPECIFIED DIMENSIONS IN INCHES | | | | | |
| TITLE: Connector Assembly - 2K | | | PART NO. | | |
| | | | SCALE 1=1 | | |
| | | | AS | | |
| | | | LS-3405-1 | | |

CAD FILE # LG-3405-1.dwg

Twice case
connected a. emb. 14

202020 ED2200T

PART NO.
LS-3490-1



- 8L -

30V

FLG. 8B

- NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
 2. FINISH: ANODIZE PER MIL SPEC MIL-A-8625F, TYPE II, CLASS 1, CLEAR, LIGHT ETCH.
 3. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

| REV. | DESCRIPTION | DRWN | DATE |
|------|---|------|------|
| 1 | MANUFACTURING: HUSCATINE, IA 52761 CORPORATE OFFICE: OSKALOOSA, IA 52577 | | |
| 2 | MATERIAL: .060 THK ALUMINUM | | |
| 3 | FINISH: 5052-H32 | | |
| 4 | SEE NOTES | | |
| 5 | TOLERANCES: XX $\pm .01$ XXX $\pm .005$ | | |
| 6 | FRACT: 1/32 ANGLES: 3/4" | | |
| 7 | UNLESS SPECIFIED DIMENSIONS IN INCHES | | |
| 8 | TITLE: Connector Bracket - 2K | | |
| 9 | PART NO. LS-3490-1 | | |



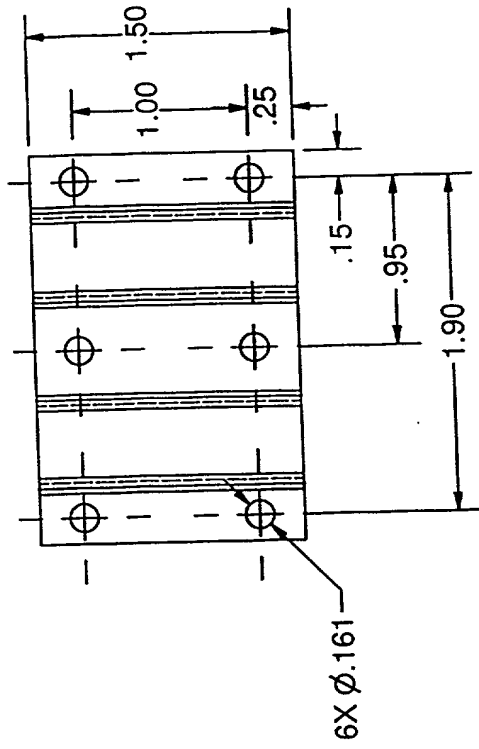
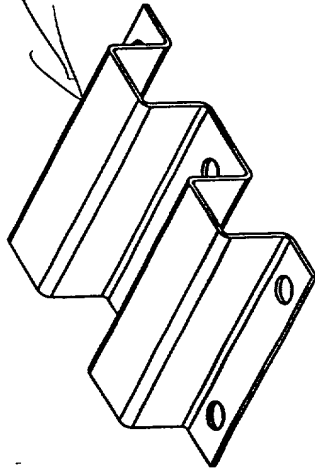
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CAD FILE # LS3490-1.DWG

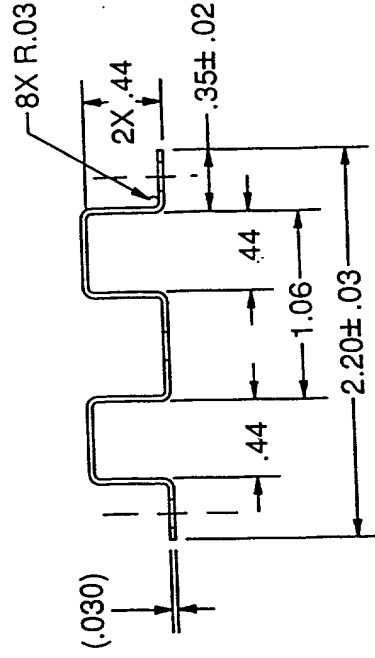
202020" E02200T

PART NO.
LS-3492-1

306



File 86



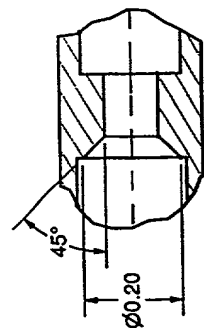
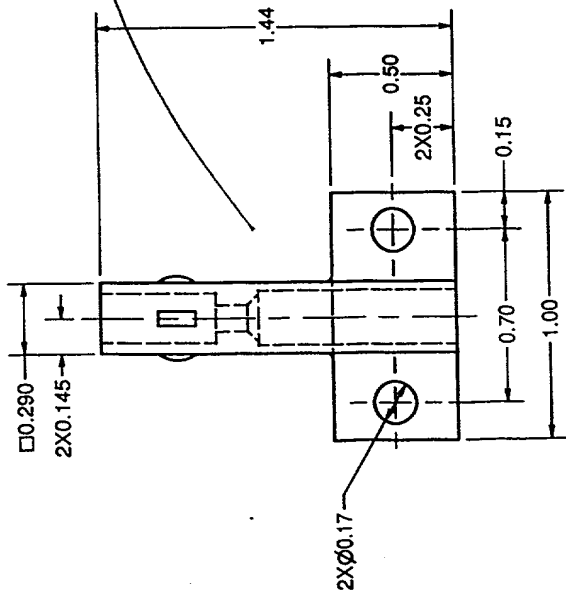
- NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
 2. FINISH: ANODIZE PER MIL SPEC MIL-A-8625F, TYPE II, CLASS 1, CLEAR, LIGHT ETCH.
 3. PARTS TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

| | | | | | | | | | |
|------------|--|--|--|----------------|--|-------------|--|--|--|
| DRWN: | | MANUFACTURING: MUSCATINE, IA 52761 | | MUSCO Lighting | | TOLERANCES: | | UNLESS SPECIFIED DIMENSIONS IN INCHES | |
| DATE: | | CORPORATE OFFICE: OSKALOOSA, IA. 52577 | | | | XX ±.01 | | 3RD ANGLE PROJECTION | |
| CHKD: | | MATERIAL: .030 THK ALUMINUM | | | | .XXX ±.005 | | ANSI Y14.5-1994 | |
| APPVD: | | FINISH: 5052-H32 | | | | FRACT: 1/32 | | | |
| SCALE: 1=1 | | SEE NOTES | | | | ANGLES: ±° | | | |
| PART NO. | | TITLE: Connector Guide - 2K | | | | | | | |
| LS-3492-1 | | A | | | | | | | |

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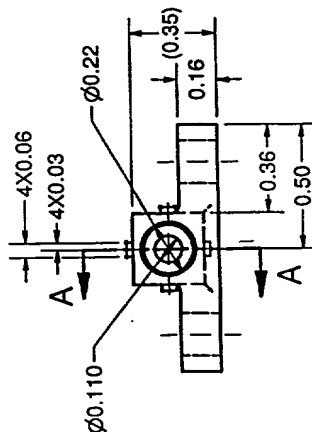
CAD FILE #: LS-3492-1.dpt

PART NO.
LS-3420-1



Detail B
Scale 4:1

Scale 1:1



Section A-A
Scale 2:1

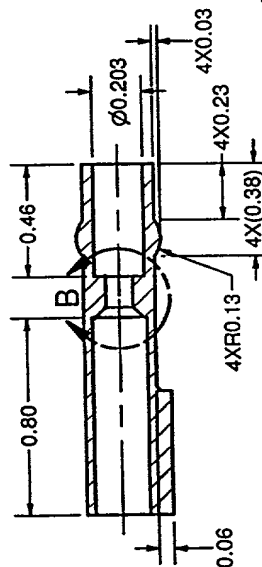


FIG. 8D

- NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
 2. ALL FILLETS AND RADII .03 UNLESS NOTED OTHERWISE.

| REV. | DESCRIPTION | DATE | C |
|------|---|------|---|
| 1 | MANUFACTURED BY STANLEY INDUSTRIAL CORP. PART NO. LS-3420-1 | | |
| 2 | MATERIAL STANLEY TW300/TW341 | | |
| 3 | FINISH NONE | | |
| 4 | TITLE 2k Fixture Connector | | |
| 5 | UNLESS SPECIFIED | | |
| 6 | ANGLES ±1° | | |
| 7 | FRAC 1 ±1/32 | | |
| 8 | XX ±.01 | | |
| 9 | XXX ±.005 | | |
| 10 | TOLEANCES | | |



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LS-3420-1

CAD FILE # LS-3420-1.PRT

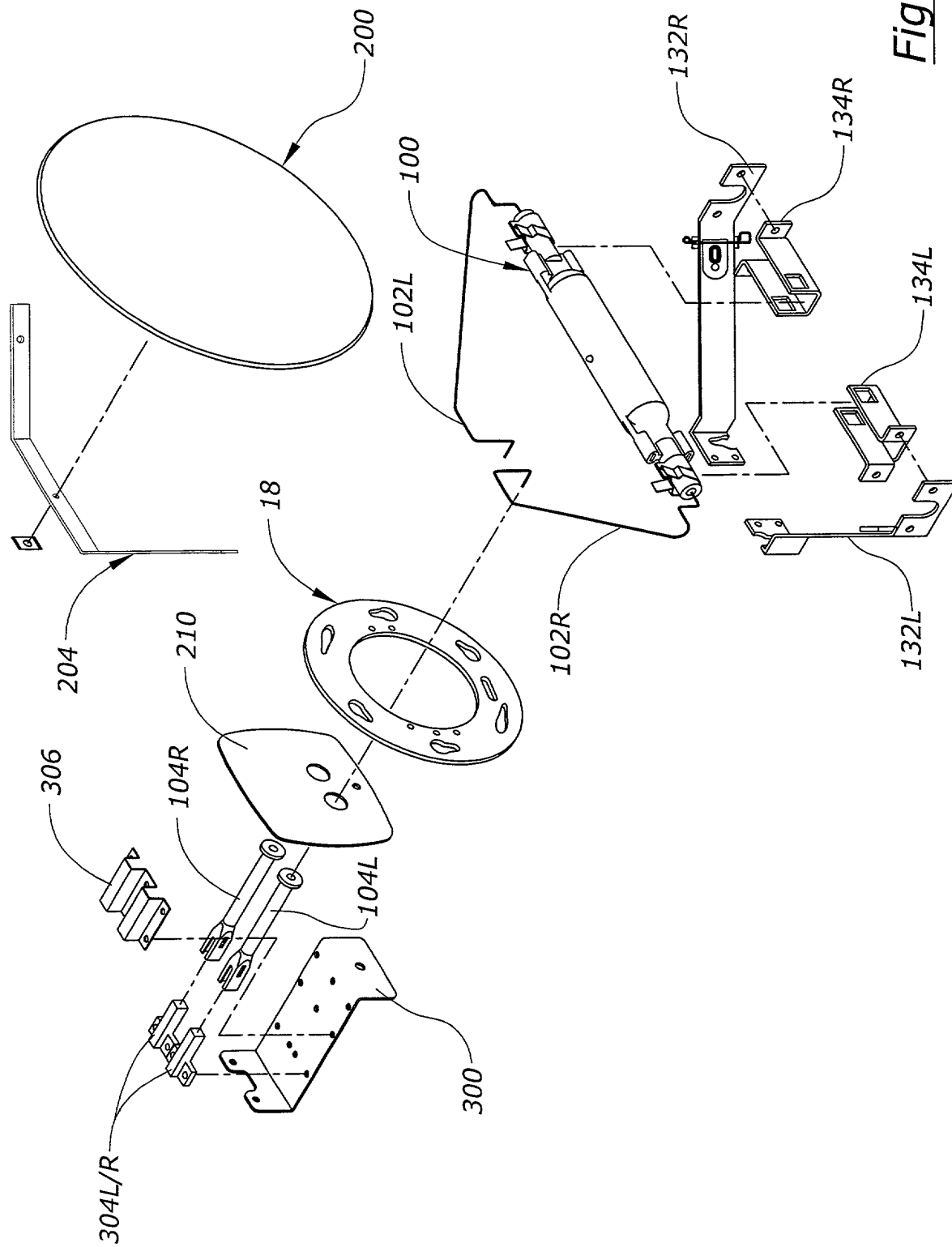


Fig. 9A

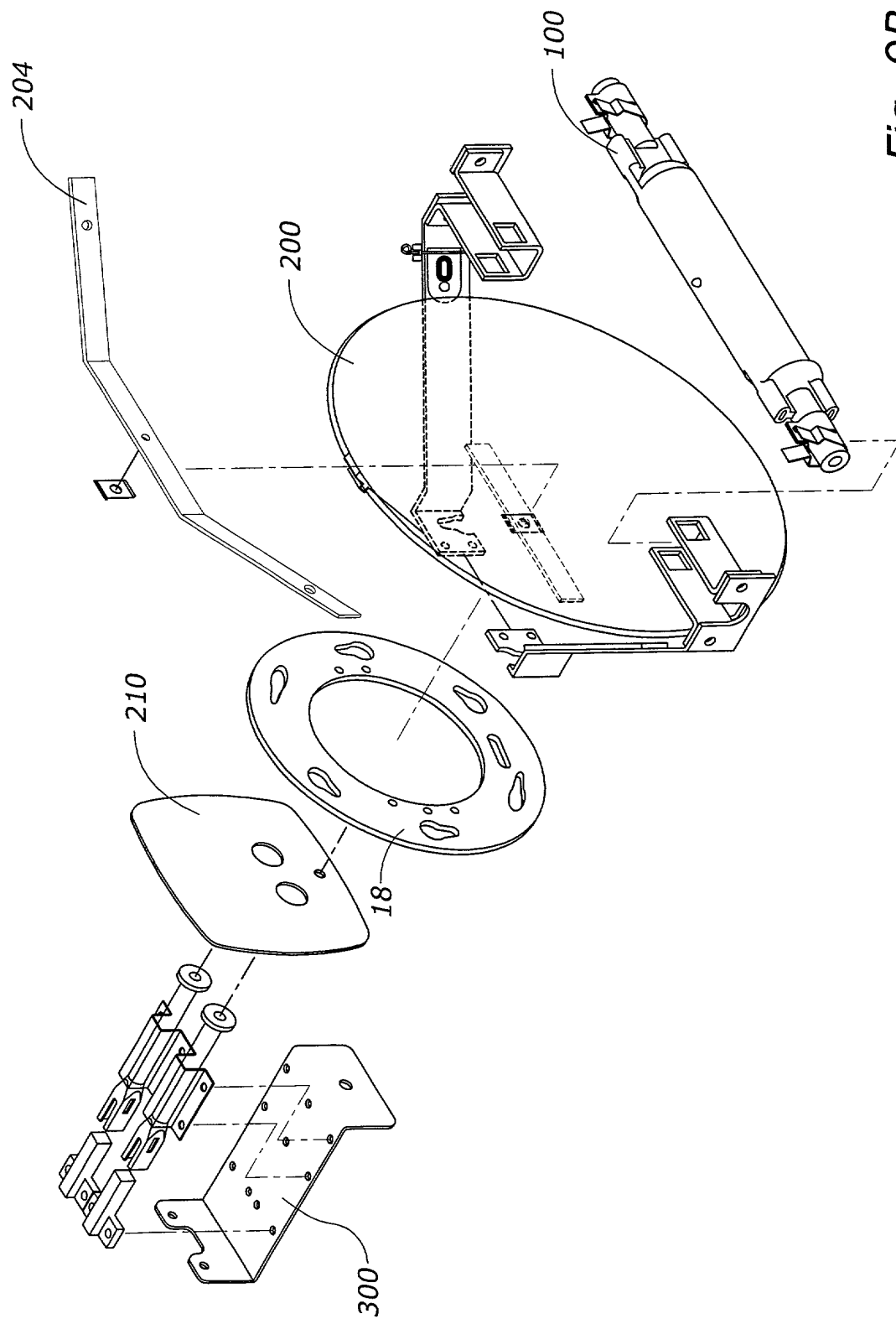
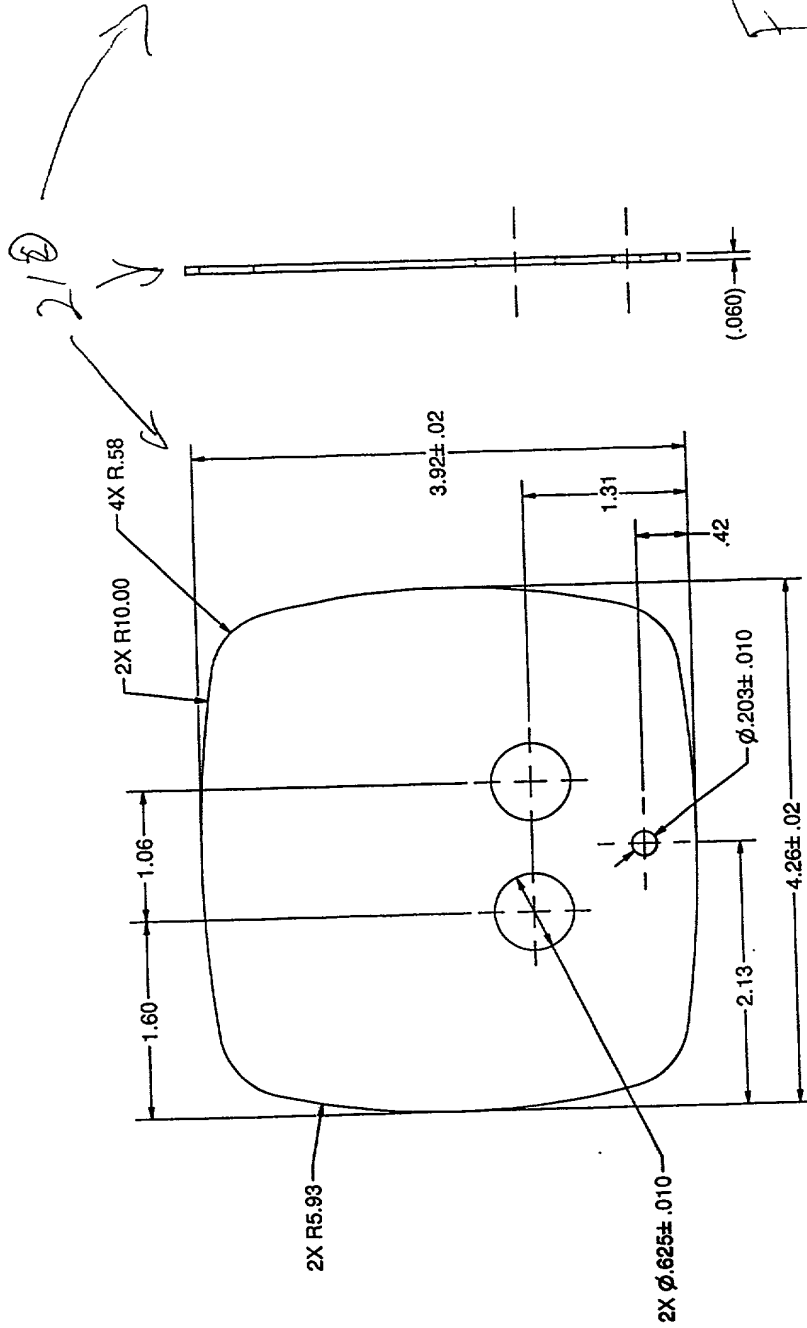


Fig. 9B

202020" E022/00T

PART NO.
LS-3496-1



- NOTE:
1. REMOVE ALL BURRS. BREAK ALL EDGES AND SHARP CORNERS .01 MIN.
 2. FINISH: ANODIZE PER MIL SPEC MIL-A-8625F, TYPE II, CLASS 1, CLEAR, LIGHT ETCH.
 3. PART TO BE CLEAN AND FREE OF OIL, GREASE AND DIRT.

| REV. | DESCRIPTION | DRWN | DATE | CHK |
|------|---|------|------|-----|
| | MANUFACTURING: MUSCATINE IA 52741 CORPORATE OFFICE OSKALOOSA IA. 52577 | | | |
| | MATERIAL: 060 THK ALUMINUM | | | |
| | FINISH: 5052-H32 | | | |
| | SEE NOTES | | | |
| | TOLERANCES: XX ± .01 XXX ± .005 | | | |
| | FRACT: 1/32 | | | |
| | ANGLES: 1° | | | |
| | UNLESS SPECIFIED DIMENSIONS IN INCHES | | | |
| | ANIS Y115-10M | | | |
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| | TITLE: Aluminum Firewall - 2K | | | |
| | PART NO. | | | |
| | LS-3496-1 | | | |
| | SCALE: 1=1 | | | |